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GEOGRAPHICAL GUIDE
to
FLORAS OF THE WORLD

An annotated list with special reference to useful plants
and common plant names

PART I

Africa, Australia, North America,
South America, and Islands of the
Atlantic, Pacific, and Indian Oceans

By

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FLORAS OF THE WORLD

An annotated selected list of floras and floristic works relating to vascular plants, including bibliographies and publications dealing with useful plants and vernacular names.

Part I

Africa, Australasia, Insular Floras, North America, and South America

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¹The authors wish to express their thanks to the authorities and librarians of the Gray Herbarium, the Arnold Arboretum, and the New York Botanical Garden for permission to consult their libraries freely. Several botanists have examined the lists of titles of regions with which they are familiar and have suggested additional papers. Dr. John Hendley Barnhart, of the New York Botanical Garden, has rendered much assistance by furnishing full names and dates of some authors from his extensive card catalog of botanists, now including about 35,000 cards.

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INTRODUCTION

The primary purpose of this publication is usefulness, not bibliographical completeness. Its aim is to furnish an annotated catalog of all the now useful floras and floristic works, including those in periodical literature, that list or describe the complete vascular flora (or the phanerogams only) of any region or locality, and to include as well all publications dealing on the same scale with useful and medicinal plants, vernacular names, and botanical bibliography. In general, only the later works relating to a given region or subject are included, although earlier publications are usually mentioned under the titles of works that have replaced them. Publications dealing with only a part of the flora, such as a single family or larger group of the flowering plants or the pteridophytes only, or a single group of useful plants, such as those producing dyes, resins, or forage, are excluded, except for complete papers on edible, medicinal, or woody plants. Occasional titles relating to weeds and poisonous plants, chiefly from the botanical point of view, have been included, although no attempt has been made to include all papers on these subjects. In the case of little-known regions without complete floras, some publications of an incomplete nature, such as lists of species obtained by individual collectors or expeditions, have been inserted, as have also some miscellaneous papers not falling strictly within the scope of the list as defined. In general, no attempt has been made to evaluate the titles listed, but references to critical reviews are given when available. Papers that are primarily ecological have been excluded unless they contain fairly complete lists of the plants of the areas discussed. Works of the "popular" type, intended for beginners in botany, have been omitted, as well as works that are now only of historical value. The list is intended to be complete through 1939, and no later titles have been inserted.

The selective nature of this work has left the authors free to omit a few papers dealing with areas so small that they can be disregarded by all but the local botanist dealing in a very special way with the regions concerned, and also those few lists that are so full of errors or so incomplete that their inclusion would serve no useful purpose. These intentional omissions aside, this publication can be taken as providing an annotated summary of the available nominally complete publications on the vascular flora and the economic botany of the world. Unintentional omissions will, of course, be found by users, and additions will be gratefully received by the authors.

No list of the scope of this one has ever been published. Daydon Jackson's *Guide to the Literature of Botany*,² now over 60 years old, dealt almost entirely with independently published works, and its few annotations were mainly bibliographical. A 12-page publication by Prof. G. L. Goodale,³ of about the same date, listed geographically and chronologically the more important independently published

² JACKSON, B. D. *GUIDE TO THE LITERATURE OF BOTANY; BEING A CLASSIFIED SELECTION OF BOTANICAL WORKS, INCLUDING NEARLY 6,000 TITLES NOT GIVEN IN PRITZEL'S THESAURUS.* xi, 626 p. 22 cm. London, 1881. (Index Society Publications, viii.)

³ GOODALE, GEORGE L. *THE FLORAS OF DIFFERENT COUNTRIES.* *Bibl. Contrib. Libr. Harvard Univ.* 9, 12 p. 1879. (Reprinted from *Bul. Libr. Harvard Univ.* no. 10, 11, and 12.)—Partly annotated list, geographically grouped, then arranged in chronological order; includes for the most part only separately published works, many of which are now only of historical value. Almost none of the smaller local floras are included.

floras of the world, and similar but briefer lists have appeared in various textbooks on systematic or other phases of botany, but none of these represented any real search of the voluminous available literature.

The part of this list now published, covering all the world except Europe and Asia and the islands closely associated with them (namely, those north of 40° north latitude in the Atlantic Ocean and north of 30° north latitude in the Pacific), includes about 2,597 primary titles and 428 subsidiary titles (supplements, reviews, etc., as well as the few works listed as not available for examination). At least as many more papers have been examined and rejected as not fulfilling the promise of their titles.

The list is based in the first instance on the classified subject catalog of botany in the library of the United States Department of Agriculture, begun in 1906 under the direction of the late Dr. Frederick V. Coville by Marjorie F. Warner and Alice C. Atwood, and continued by them and their assistants. This catalog provides a fairly complete index to the systematic and economic publications of the world for the last third of a century, as well as to much of the earlier literature. Practically all the pertinent works on the shelves of the libraries of the Gray Herbarium, the Arnold Arboretum, and the New York Botanical Garden have been examined independently by one of the authors, and the titles given in the bibliographies of the papers cited in the present list have been checked. The geographically arranged lists in the Bradley Bibliography,⁴ the Catalogue of the Library of the Arnold Arboretum (vol. 2), and the publications of the Lloyd Library⁵ have also been utilized, as well as Bay's Bibliographies of Botany.⁶ Certain series of periodicals have been gone through, but no complete examination of the botanical periodicals of the world has been attempted, nor have the unclassified catalogs of the libraries of the Kew Herbarium and the British Museum been searched, although they would, no doubt, provide some additional items.

After the bulk of the list was essentially completed, a search through the principal periodical bibliographical publications added a considerable number of mostly minor titles, which previously had been overlooked or rejected. The publications examined for this purpose include: Biological Abstracts (vol. 1-13, pt. 8), Botanical Abstracts (vol. 1-15), Bohnensieg's Repertorium annum literaturae botanicae periodicae (vol. 1-8), Botanisches Centralblatt (vol. 1-175, heft 6) and its Beihefte (vol. 1-9), Bulletin de la Société Botanique de France (vol. 1-86, pt. 2), Engler's Botanische Jahrbücher (vol. 1-70, pt. 3), Fortschritte der Botanik (vol. 1-8), International Catalogue of Scientific Literature (vol. 1-14), and Just's Botanischer Jahresbericht (vol. 1-57, heft 1).

* REHDER, ALFRED. THE BRADLEY BIBLIOGRAPHY. A GUIDE TO THE LITERATURE OF THE WOODY PLANTS OF THE WORLD PUBLISHED BEFORE THE BEGINNING OF THE TWENTIETH CENTURY. 5 v. 30 cm. Cambridge [Mass.], 1911-1918. (Pub. Arnold Arboretum no. 3.)—Phytography (floras, etc.) in v. 1.

⁵ HOLDEN, WILLIAM, and WYCOFF, EDITH. BIBLIOGRAPHICAL CONTRIBUTIONS FROM THE LLOYD LIBRARY, CINCINNATI, OHIO. v. 1, no. 2-13. 1911-1914.—Each number a bibliography of the floristic literature of a country or region, alphabetically arranged by authors. Those referring to regions in the present list are: No. 9 (North America and West Indies), no. 10 (South America and Antarctic regions), no. 12 (Oceanica, including Australasia), and no. 13 (Africa).

⁶ BAY, J. C. BIBLIOGRAPHIES OF BOTANY. A CONTRIBUTION TOWARD A BIBLIOTHECA BIBLIOGRAPHICA. Prog. Rei Bot. 3: 331-456. 1910.—Includes, among other material, a list of "general and comprehensive bibliographies" and one of "national (regional) bibliographies."

A few general works and textbooks dealing with the flora or the economic plants of the whole world, for the most part familiar to every working botanist, have not been included in this publication, but may be mentioned here. The most important ones dealing primarily with the flora of the world are De Candolle's *Prodromus* and its continuation, the *Monographiae Phanerogamarum*, Benthams and Hooker's *Genera Plantarum*, Baillon's *Histoire des Plantes*, Engler and Prantl's *Die Natürlichen Pflanzenfamilien*, Dalla Torre and Harms' *Genera Siphonogamarum*, the extensive series of volumes forming *Das Pflanzenreich*, the *Index Kewensis*, and the *Index Londinensis*. Some outstanding works dealing with vernacular names are Gerth van Wijk,⁷ Lyons⁸ (which also gives uses), Bedevian,⁹ and Meyer.¹⁰

Numerous works, mostly textbooks, treating of the economic and medicinal plants of the world are available, among which the following may be mentioned: For economic plants in general, Clute's *Useful Plants of the World*,¹¹ Hill's *Economic Botany*,¹² Holland's *Overseas Plant Products*,¹³ Rosenthal's *Synopsis Plantarum Diaphoricarum*,¹⁴ Wiesner's *Die Rohstoffe des Pflanzenreichs*,¹⁵ and Wehmer's *Die Pflanzenstoffe*¹⁶; for edible plants, Bois' *Les Plantes Alimentaires*,¹⁷

⁷ GERTH VAN WIJK, H. L. A DICTIONARY OF PLANT NAMES. 2 v. 29.5 cm. The Hague, 1911-1916.—Vol. 1, bibliography; alphabetical list of botanical names, with English, French, German, and Dutch vernacular names; vol. 2, index to vernacular names.

⁸ LYONS, A. B. PLANT NAMES SCIENTIFIC AND POPULAR, INCLUDING IN THE CASE OF EACH PLANT THE CORRECT BOTANICAL NAME IN ACCORDANCE WITH THE REFORMED NOMENCLATURE, TOGETHER WITH BOTANICAL AND POPULAR SYNONYMS . . . ed. 2. 630 p. 20.5 cm. Detroit, 1907.—Alphabetical list of 2,327 genera, each with one or more species, with vernacular names and principal uses; index of vernacular names.

⁹ BEDEVIAN, A. K. ILLUSTRATED POLYGLOTTIC DICTIONARY OF PLANT NAMES IN LATIN, ARABIC, ARMENIAN, ENGLISH, FRENCH, GERMAN, ITALIAN AND TURKISH LANGUAGES, INCLUDING ECONOMIC, MEDICINAL, POISONOUS AND ORNAMENTAL PLANTS AND COMMON WEEDS . . . xv, 644, 455 p. illus., port. 21 cm. Cairo, 1936.—Alphabetical list of 3,657 vascular and cellular plants, with vernacular names in eight languages; notes on transliteration and pronunciation; bibliography; separate lists of names in each language, with references to the first part of the work.

¹⁰ MEYER, HANS. BUCH DER HOLZNAMEN . . . xviii, 564 p. 25.5 cm. Hannover, 1933-36.—Alphabetical list of vernacular names of trees in all languages, with botanical equivalent, family name, and habitat.

¹¹ CLUTE, W. N. THE USEFUL PLANTS OF THE WORLD. 2d ed. 220 p. 22 cm. Indianapolis, 1932. (1st ed. 1928, reprinted from Amer. Bot. suppl. v. 33-34, 1927-28.)—Popular treatment, with lists of principal species grouped by uses.

¹² HILL, A. F. ECONOMIC BOTANY. A TEXTBOOK OF USEFUL PLANTS AND PLANT PRODUCTS. x, 592 p. 225 fig. 24 cm. N. Y., 1937.—Discussion of useful plants, grouped by uses; systematic list of species; bibliography, composed chiefly of publications in English.

¹³ HOLLAND, J. H. OVERSEAS PLANT PRODUCTS. vii, 279 p. 18.5 cm. London, 1937.—Briefly annotated alphabetical list of trade names, with botanical names and localities, of "all the natural products of vegetable origin, imported on a commercial scale into the docks under the control of the Port of London Authority and into other ports, for landing and delivery to the consignees in the markets of the United Kingdom. Others of economic value in the countries of production, including many that have been sent to Kew from time to time for identification, are also included." Has bibliography.

¹⁴ ROSENTHAL, D. A. SYNOPSIS PLANTARUM DIAPHORICARUM. SYSTEMATISCHE UEBERSICHT DER HEIL-, NUTZ- UND GIFT-PFLANZEN ALLER LÄNDER. xxvi, 1359 p. 22.5 cm. Bräun, 1861 (1861-62).—Systematic list of medicinal, useful, and poisonous plants, with German vernacular names, official names, range, brief account of uses.

¹⁵ WIESNER, JULIUS VON. DIE ROHSTOFFE DES PFLANZENREICHS. 4. aufl. . . Herausgegeben von Paul Kraus und Wilhelm von Brehmer. 2 v. (2,253 p.). illus. 25 cm. Leipzig, 1927-28. (1st ed. 1873).—Encyclopedic work with especial emphasis on chemical features, the plants grouped under such headings as Alkaloide, Farbstoffe, Hölzer, etc., with extensive bibliographies and annotated systematic lists of species.

¹⁶ WEHMER, CARL. DIE PFLANZENSTOFFE BOTANISCH-SYSTEMATISCH BEARBEITET. BESTANDTEILE UND ZUSAMMENSETZUNG DER EINZELNEN PFLANZEN UND DEREN PRODUKTE. PHANEROGAMEN. 2. neubearb. und verm. aufl. 2 v. (1,511 p.). Jena, 1929-31 (1st ed. 1911).—Ergänzungsband zur zweiten auflage: nachträge aus den jahren 1930-1934, mit bearb. von Magdalene Hadders. Aus dem nachlass hrsg. von Hans Amelung . . . iv, 244 p. port. 25.5 cm. Jena, 1935.—Systematic list of 4,493 spermatophytes, with habitat, products, chemical properties, references.

¹⁷ BOIS, DESIRÉ. LES PLANTES ALIMENTAIRES CHEZ TOUS LES PEUPLES ET À TRAVERS LES ÂGES. HISTOIRE, UTILISATION, CULTURE. 4 v. 698 fig. 25.5 cm. Paris. 1927-37.—Descriptive account of wild and cultivated edible plants, with history, uses, vernacular names, and references. Vol. 1, vegetables; v. 2, fruits; v. 3, spices and condiments; v. 4, sources of drinks. "May be regarded as the fourth edition of 'A. Paillieux and D. Bois. Le potager d'un curieux . . .'" 1885.

and Sturtevant's Notes on Edible Plants¹⁸; for medicinal plants, Baillon's *Traité de Botanique Médicale Phanérogamique*,¹⁹ Bentley and Trimen's *Medicinal Plants*,²⁰ Dragendorff's *Die Heilpflanzen*,²¹ and Dujardin-Beaumetz and Égasse's *Les Plantes Médicinales*,²² for woody plants, in addition to the Bradley Bibliography²³ and Meyer's *Buch der Holznamen*,²⁴ Ahern and Newton's Bibliography,²⁵ Howard's *Manual of the Timbers of the World*,²⁶ and Record and Mell's²⁷ *Timbers of Tropical America*.

The more strictly bibliographical part of the present work has been the chief concern of Miss Atwood, the selection and annotation of the titles that of S. F. Blake. For the purpose of this publication, it has not seemed worth while to enter into the niceties of citation so dear to the heart of the confirmed bibliographer. Intercalated unnumbered pages, variant cover and title-page titles, unpaginated errata lists and the like have in practically all cases been passed over, but no effort has been spared to secure accuracy in all the bibliographical matter actually presented. Authors' given names, when more than one, are cited only as initials in the body of the work, but full names and dates, wherever available, are given in the author index (prepared by Miss Atwood).

Subdivisions under the principal geographic units have been dispensed with as far as possible, to avoid multiplication of subheadings, but under each geographic heading works covering the whole region are listed first (under the heading *General*), followed by the local and partial titles (under the heading *Local*). Wherever it seems desirable, the geographical information given in the title has

¹⁸ STURTEVANT, E. L. STURTEVANT'S NOTES ON EDIBLE PLANTS. Edited by U. P. Hedrick. vii, 686 p. port. 31 cm. Albany, 1919. (New York Dept. of agriculture. 27th Annual report. v. 2, pt. 2; also Report of the New York agricultural experiment station, 1919, II.)—Alphabetical list of 2,897 plants, with habitat, uses, principal English names, and references; bibliography. Edible fungi are not included.

¹⁹ BAILLON, H. E. TRAITÉ DE BOTANIQUE MÉDICALE PHANÉROGAMIQUE. 1499 p. 3487 fig. 24 cm. Paris, 1883-84.—General account of organography and physiology; systematic account of medicinal plants of the world, with vernacular names and uses, and brief descriptions of families and genera and of the more important species.

²⁰ BENTLEY, ROBERT, and TRIMEN, HENRY. MEDICINAL PLANTS, BEING DESCRIPTIONS WITH ORIGINAL FIGURES OF THE PRINCIPAL PLANTS EMPLOYED IN MEDICINE AND AN ACCOUNT OF THE CHARACTERS, PROPERTIES, AND USES OF THEIR PARTS AND PRODUCTS OF MEDICINAL VALUE. 4 v. 306 col. pl. 24 cm. London, 1880 (1875-80).—Systematic account with descriptions, official names, composition, uses, references; 306 species figured, many other mentioned. Designed as an illustrated botanical guide to official British, Indian, and United States pharmacopœias.

²¹ DRAGENDORFF, GEORG. DIE HEILPFLANZEN DER VERSCHIEDENEN VÖLKER UND ZEITEN. IHRE ANWENDUNG, WESENTLICHEN BESTANDTHEILE UND GESCHICHTE . . . vi, 884 p. 24.5 cm. Stuttgart, 1898.—Briefly annotated systematic list, mostly without references and with few vernacular names.

²² DUJARDIN-BEAUMETZ, GEORGES, and ÉGASSE, ED. LES PLANTES MÉDICINALES INDIGÈNES ET EXOTIQUES, LEURS USAGES THÉRAPEUTIQUES ET INDUSTRIELS vii, 845 p. 1034 fig. 40 col. pl. 28.5 cm. Paris, 1889.—Descriptive account of more significant medicinal plants of the world, alphabetically arranged, with account of properties and uses; index of botanical and vernacular names; list of species classified by uses.

²³ See footnote 4, p. 4.

²⁴ See footnote 10, p. 5.

²⁵ AHERN, G. P., and NEWTON, H. K. A BIBLIOGRAPHY ON WOODS OF THE WORLD, EXCLUSIVE OF THE TEMPERATE REGION OF NORTH AMERICA AND WITH EMPHASIS ON TROPICAL WOODS. *Scient. Contrib. Trop. Plant Res. Found.* no. 10. 77 p. 1928.—List of 1,530 titles, geographically arranged, with translations of non-English titles; subject index. Includes chiefly items dealing with forestry and commercial aspects of woods; floras and purely taxonomic works are mostly omitted.

²⁶ HOWARD, A. L. A MANUAL OF THE TIMBERS OF THE WORLD. THEIR CHARACTERISTICS AND USES. Rev. ed. to which is appended an index of vernacular names. xxiii, 672 p. illus. 18.5 cm. London, 1934. (1st ed. 1920.)—Annotated list, alphabetically arranged by vernacular names, with range vernacular names, uses, character of wood; bibliography, geographical lists of timbers; indices of botanical and vernacular names.

²⁷ RECORD, S. J., and MELL, C. D. TIMBERS OF TROPICAL AMERICA. xviii, 610 p. 50 pl. 26 cm. New Haven, 1924.—General account of forests in whole of West Indies, Mexico, Central America, and South America; systematic account of families and more important genera and species of trees, with vernacular names, uses, description of wood and wood anatomy.

been supplemented in the annotation, usually in the form of a parenthetical statement. The figures of longitude given are based on the Greenwich meridian. The annotations in all cases are to be regarded as supplementary to the title.

Each publication is listed in full only once, but cross-references are given immediately following the pertinent geographic heading. It has not seemed necessary to provide cross-references from smaller geographical units to the larger units of which they form a part, and the latter should always be consulted as well. Except in a very few cases, all of which are so indicated in the annotation, all the works listed have been examined by one or both of the authors. The comparatively few works that, from their titles, appear to be of value, but which have not been examined or found reviewed, are listed directly after the appropriate geographic heading.

The arrangement adopted is an alphabetical-geographical one, summarized in the table of contents. The Times Survey Atlas of the World (London, 1922) has been followed in general for geographic boundaries. No great difficulty has been found in arranging the titles under readily intelligible geographic headings except in the cases of Africa and Insular Floras. The difficulty in Africa arises not so much from the numerous changes of name following the World War, which were accompanied by relatively few and mostly unimportant changes of boundaries, as from the great area covered by some of the principal floras and from the vagueness of many of the geographical divisions of Africa that do not correspond with political boundaries. The residue of works that could not be definitely placed under any of the recognized political divisions was finally listed under the headings Sahara, South Africa (in general, the region south of the Tropic of Capricorn), and West Africa (in general, the region from Mauritania to Angola). Cross-references to these are provided under the separate countries concerned, but reciprocal references under these three nonpolitical divisions have not been considered necessary.

The arrangement of the very numerous insular floras has offered particular difficulty. Some papers deal with the flora of the whole or only a part of definite island groups, others with that of a single island or a group or with several scattered islands or groups of islands; and the boundaries of such commonly used geographic terms as Melanesia, Micronesia, and Polynesia differ somewhat in different atlases and are usually not clearly marked on actual maps. The method finally adopted is that of listing under separate headings papers dealing with an island group as a whole and those dealing individually with any of its constituent islands when these are of any considerable size. Papers treating of the flora of several islands or groups of islands are almost always listed in full under the first island mentioned. Cross-references are provided in all cases. All the islands north of 40° north latitude in the Atlantic and 30° north latitude in the Pacific are placed under the continents and countries to which they belong (Greenland under North America; Iceland, Spitzbergen, Faroe Islands, etc., under Europe; Aleutian Islands under Alaska, and so on); the islands stretching from the southern tip of Kamchatka to and including Formosa, also Hainan and the Bonin Islands, as well as Ceylon, under Asia; New Zealand

(with Stewart Island), Tasmania, and the small islands immediately off Australia under Australasia; Cedros, Guadalupe, Revillagigedo, Socorro, Tres Marias, and a few smaller islands under Mexico; Fernando Po, São Thomé (St. Thomas) with Principe, and Zanzibar under Africa; West Indies under North America. The remaining islands, forming the section Insular Floras of this list, are divided somewhat arbitrarily into three groups: Atlantic Ocean islands, between 70° west and 20° east longitude (Greenwich meridian); Indian Ocean islands (including Arabian Sea and Bay of Bengal), between 20° and about 95° east longitude, terminating with the Nicobar Islands (but including Christmas Island and Keeling or Cocos Islands); and the Pacific Ocean islands, from about 95° east to 70° west longitude, including all the Dutch East Indies from Sumatra eastward, with the small islands immediately south of them. The islands in the Mediterranean Sea, except those belonging to Africa, will be treated in the second part of this work.

The examination and annotation of several thousand publications has brought to attention so many common faults and omissions in the preparation of floristic papers that some comments will not be out of place. The essential features of even the barest list of plants include a title accurately describing its contents; the most definite possible statement of the geographical area covered, with reference, in the case of small or obscure localities, to the distance and direction from some locality that can be found on any reasonably detailed map, supplemented, particularly in the case of oceanic islands, by details of latitude and longitude; and a statement of the material on which the list is based, whether the author's collections or observations alone or all published or unpublished information. Any list that attempts to represent the known flora of a region should include also a statistical summary, not necessarily detailed, of the number of species included, preferably divided among the vascular cryptogams, gymnosperms, monocotyledons, and dicotyledons, with similar figures for at least the larger families, and a bibliography in which the titles and references are given accurately and in full, not merely to the volume of a work or periodical or the first page of a paper.

Additional items that add greatly to the value of a flora include accounts of the topography, hydrography, climate, geology, and soils; botanical explorations and list of collectors, with full names and some biographical information; list of herbaria in which specimens are deposited; general and special features of vegetation, ecology, phytogeography, life zones, endemic species; notes on native and cultivated useful plants; local vernacular names; lists of doubtful and excluded species, with reference to previous publications; a gazetteer of localities, particularly those not to be found in ordinary atlases, supplemented, if possible, by a map; a list of botanical names first published in the work; and an index. An estimate of the relative completeness of the work may well be added, and, if circumstances warrant, some account of conditions affecting botanical collecting, such as methods of transportation, available accommodation, and so on. The inclusion or omission of keys, descriptions, references, and synonymy depends on the purpose for which the publication is intended and on the availability of such information in other publications. Authors of works dealing with regions not cov-

ered by descriptive floras, for instance Alaska or most of the Central American countries, should remember that the utility of such publications is increased manifold by the inclusion of keys, supplemented if possible by brief descriptions, and that, if choice must be made, some of the space taken up by detailed citation of exsiccatae and various other less essential matter can be much more profitably employed for this purpose. Authors of supplements to published material should give a full reference to the title and place of publication of the original paper.

Despite its occasional omissions, the present publication is sufficiently complete to afford data for a summary of the knowledge of the floras of more than half the world; all, that is, except Europe and Asia and their associated islands. The extent of the lack of detailed knowledge of the floras of much of this part of the world, with the honorable exceptions of Greenland, Australasia, and a considerable proportion of the islands, is brought out in the following paragraphs, which necessarily pass over the numerous strictly local lists or partial floras.

AFRICA.—Of the 49 geographical divisions here employed (excluding the Sahara, South Africa, and West Africa), there are more or less complete floras, containing descriptions or keys, of seven, as follows: Algeria (1888–1910), Anglo-Egyptian Sudan (1929), Angola (1937—; in process of publication), Egypt (1912, plus list of 220 additional forms in 1930), Swaziland and Transvaal together (1926—; in process of publication), and Tunisia (1902). Of these, only the still unfinished floras of Angola and of Transvaal and Swaziland can really be regarded as satisfactory. The known flora of Algeria has been greatly increased since 1910; Broun and Massey's *Flora of the Sudan* is rather a field book than a sufficient flora; Muschler's *Flora of Egypt* is presumably as unreliable as his other publications; and the keyed list of the flora of Tunis (with Algeria) published by Battandier and Trabut in 1902, with its predecessor, Bonnet and Barratte's *Catalogue* of 1896, is long out of date.

Some 19 additional countries or colonies are represented by more or less extensively annotated lists, without keys or descriptions except of the new species: Belgian Congo (1909–21), Eritrea (1903–07; never completed), Gambia (1907, 1922), Gold Coast (1914, 1930, 1937), Italian Somaliland (1929–36; extensive, but not a comprehensive flora), Kenya (1922, 1936), Liberia (1937), Libya (1910), Morocco (1931–34), Natal (1921), Nyasaland (1898), Rio de Oro (1914), São Thomé (1886–92), Sierra Leone (1916; not seen), Southern Rhodesia (1916), South-West Africa (1917–28), Tanganyika (1929—; not yet finished), Uganda (1902), and possibly Zanzibar (ca. 1890).

The following 23 countries, colonies, and protectorates are entirely without general floras or lists limited to their area, although all but 2 (Bechuanaland, Ruanda and Urundi) have been the subject of partial papers cited in this bibliography: Basutoland, Bechuanaland, Bechuanaland Protectorate, British Somaliland, Cameroons, Cape of Good Hope, Dahomey, Ethiopia (except for Richard's ancient flora), French Equatorial Africa, French Guinea, French Somaliland, French West Africa, Ivory Coast, Mauritania, Mozambique, Nigeria (except for Hooker and Bentham's ancient Niger Flora), Northern Rhodesia,

Orange Free State, Portuguese Guinea, Ruanda and Urundi, Senegal, Spanish Guinea, and Togo. All of these, however, are covered by the general floras of Africa—*Flora Capensis*, *Flora of Tropical Africa*, *Flora of West Tropical Africa*—so far as their botany was known at the time the works were written. The lists of species given by Engler in *Die Pflanzenwelt Afrikas* should always be consulted for information on the flora of these areas, as well as Chevalier's *Énumération* (1920) for the west coast region from Senegal to Calabar.

On the whole, the principal countries in Africa most insufficiently known or inadequately covered by published works are, to the north of the Equator, *Rio de Oro,²⁸ Mauritania, Senegal, Portuguese Guinea, French Guinea, Sierra Leone, Ivory Coast, Togo, parts of French West Africa and French Equatorial Africa, Spanish Guinea, Uganda, Kenya, *Eritrea, *Ethiopia, *French and *British Somaliland; and south of the Equator, *Northern Rhodesia, Nyasaland, *Mozambique, *Bechuanaland, and Orange Free State. A single comprehensive summary of the very extensive work done on the flora of the Belgian Congo since the Durands' *Sylloge* of 1909 is also greatly to be desired, as well as similar summaries for Algeria, Tunisia, Libya, Nyasaland, and Uganda.

AUSTRALASIA.²⁹—The only general flora of Australia, that of Bentham, is now over 60 years old. All the principal subdivisions of Australasia, however, are provided with comparatively modern lists or descriptive floras: New South Wales (Maiden and Betche's *Census*, 1916, and Moore and Betche's *descriptive Handbook*, 1893); Northern Territory (Ewart and Davies' *keyed Flora*, 1917); Queensland (Bailey's *descriptive Queensland flora*, 1899–1902, and his *Comprehensive Catalogue*, 1913); South Australia (Black's *descriptive Flora*, 1922–29, as well as Tate's *Census*, 1889–95, and his *keyed Handbook*, 1890); Victoria (Ewart's *descriptive Flora*, 1930, and the *Field Naturalists' Club's Census*, 1928–31); Western Australia (Gardner's *unannotated Enumeratio*, 1931); New Zealand (Cheeseman's *descriptive Manual*, 1925); Tasmania (Rodway's *briefly descriptive Tasmanian Flora*, 1903). There are also a large number of substantial local lists, and the flora as a whole can be regarded as more satisfactorily covered by published works than that of any equally extensive division of the earth's surface except Europe.

INSULAR FLORAS.—Insular floras, from their compactness and aloofness, seem to have had a peculiar attraction for botanists.

Of the 17 Atlantic islands or groups of islands included in this list, all are more or less well covered by existing lists, although only one group (Bermuda Islands) has a modern descriptive flora.

Of the 21 islands or groups of islands listed in the Indian Ocean, the smaller islands as a rule are pretty well covered. Some of the larger floras are comparatively old. Kurz's report on the Andaman Islands dates from 1870 (with a subsequent nominal list by Rogers in 1903), Baker's *descriptive Flora of Mauritius* from 1877 (with a list of additions by Johnston in 1895), Balfour's *Botany of Rodriguez* from 1879, Jacob de Cordemoy's *Flora of Réunion* from 1895, and Kurz's *Sketch of the Vegetation of the Nicobar Islands* from 1876.

²⁸ Those marked with an asterisk are especially in need of floras.

²⁹ The term Australasia, as here used, refers only to Australia, New Zealand, and Tasmania, the minor islands being listed under Insular Floras.

The greatest need in this field is a satisfactory flora of Madagascar. Baron's Compendium dates from 1901 to 1906, Palacký's Catalogus from 1905 to 1907, and both are merely lists, as is also the catalog now being published in parts by the Académie Malgache. The excellent descriptive Flore de Madagascar edited by Humbert has so far covered only 6 of the 189 families represented in the flora, and the prospects of its completion under present disturbed world conditions are not favorable. The large proportion of endemics in this flora of over 5,000 species and the extent to which the descriptions are scattered in botanical literature make the publication of a descriptive flora of the island one of the greatest desiderata in the botanical literature of the world.

The 23 islands or groups of islands in the Pacific Ocean are very unequally covered. The chief ones of which knowledge of the flora, however incomplete, is fairly well organized are the Australian Islands (Antipodes, Auckland, Bounty, Campbell, Chatham, Kermadec, Lord Howe, Macquarie, Norfolk, Snares), Borneo (Merrill's Bibliographic Enumeration, 1921, with additions to 1926), Cocos Island, Fiji Islands (Seemann, 1865-73, with extensive lists of additions by several recent authors), Galapagos Islands, Java (Koorders' Exkursionsflora, 1911-37), Juan Fernandez Islands (Skottsberg, 1921), some islands or groups in Melanesia (New Hebrides, Guillaumin, 1928 and subsequently; New Caledonia, listed separately beyond; and, mostly in less complete form, the flora of several smaller islands), Micronesia (Kanehira's Enumeration, 1935; also Guam, Merrill, 1914, and several of the smaller islands), New Caledonia (Guillaumin, 1911, with a bewildering array of subsequent additions), Philippine Islands (Merrill, 1923-26, with subsequent additions to 1930), parts of Polynesia (Marquesas, Tuamotu, and Austral Islands, etc., Brown and Brown, 1931-35; Samoan and Society Islands, listed separately beyond; and numerous single islands or small groups), Samoan Islands (Reinecke, 1896-98, with additions; Christophersen, 1935-38), San Ambrosio and San Felix (Skottsberg, 1937), and Society Islands (Drake del Castillo, 1892, and Setchell's recent papers).

Most of these islands, so far as modern floras go, are covered by lists only, with the principal exception of Koorders' Exkursionsflora von Java and Drake del Castillo's Flore de la Polynésie Française, so that much research is necessary for the identification of specimens. Sumatra and New Guinea are very inadequately provided with floras, the former having Miquel's Prodrômus of 1860 and various later lists covering individual collections; the latter various lists of separate collections, but no general flora since its treatment in Miquel's Flora Indiae Batavae in 1855-59. The Hawaiian Islands have Hillebrand's Flora of 1888, now far from satisfactory, and Degener's Flora Hawaiiensis, a well-illustrated current work marred by its piecemeal publication in loose-leaf form, a method of publication which is unique among floras at present, and, it is to be hoped, forever. Celebes has among modern floras only Koorders' Verslag of 1898, covering the Minahasa Peninsula, with a set of supplements extending to 1922. Many of the smaller groups or single islands possess fairly complete floras. The extent to which the known flora of the smaller islands in Polynesia can be increased by careful collecting

is indicated by the statistical table recently given by St. John³⁰ of the results of the Mangarevan Expedition.

NORTH AMERICA.—*Alaska.*—Hultén's Flora of the Aleutian Islands and Westernmost Alaska Peninsula (1937), Porsild's Contributions to the Flora of Alaska (1939), and several fairly modern local lists are available, but there is no general flora except Rothrock's compiled list of 1872, now of little more than historical value. A flora of Alaska by Eric Hultén is in course of publication.

Canada.—The only general list, by John Macoun, dates from 1883-90, with supplements by James M. Macoun extending to 1906. Of the 15 Provinces and districts here recognized (including Newfoundland, politically not a part of Canada), only one-third possess a modern list: Franklin (Simmons, 1913), Manitoba (Jackson and others, 1922), Prince Edward Island (Hurst, 1933, an unannotated list), Quebec (Louis-Marie, 1931; also Marie-Victorin's Flore Laurentienne, 1935, covering the southern part), Saskatchewan (Fraser and Russell, 1937). There are older lists for Labrador (Macoun, 1897), New Brunswick (Fowler, 1885, with additions to 1905), and Nova Scotia (Lindsay, 1877), none of which adequately represents present knowledge, and a fair number of local lists.

Central America.—Of the eight Central American countries (including Mexico), only three possess modern floras, all written by Paul C. Standley alone or in cooperation with other botanists (British Honduras, 1936; Costa Rica, 1937-38; Salvador, 1925). The first contains brief descriptions of the woody plants, and the second of the dicotyledons; the third is an annotated list only. Guatemala, Honduras, and Nicaragua are quite without real floras, although two of them are the subject of publications so miscalled; the two last are the least known of Central American countries, but a few local lists can be cited. Panama possesses, in addition to Seemann's now ancient Flora (1852-54), Standley's Flora of Barro Colorado Island (1933) and his Flora of the Panama Canal Zone (1928), the latter with keys and often brief descriptions. Mexico, by far the largest and richest in species of Central American republics, has had no complete flora since the general one of Hemsley (Biologia Centrali-Americana . . . Botany, 1879-88), which covered also the other Central American countries and is now very far from representing the known vascular plants. The gap is well filled, as far as woody plants are concerned, by Standley's Trees and Shrubs of Mexico (1920-26), but this includes probably less than half the total flora. The only complete flora of any Mexican State is Standley's Flora of Yucatan (1930), but there are also floras by Reiche of localities in the vicinity of Mexico City and others of several islands by other authors as well as Brandegee's papers on Baja California.

Greenland.—The by no means extensive flora of Greenland (scarcely 400 species) probably can boast of more pages of botanical literature per species than that of any other region in this list. The last complete list with localities and annotations is that of Lange, as revised by Rosenvinge in 1892, but there are a comparatively large number of carefully prepared lists of later date for different parts of the island.

³⁰ Bul. Bernice P. Bishop Mus. 133: 56. 1935.

United States.—Of the 49 geographical units (48 States plus the District of Columbia), 7 (Arizona, Delaware, Florida, Idaho, Oregon, South Carolina, and Virginia³¹) have never had a separate flora, and 4 others (Georgia in 1849; Kentucky, 1853; Louisiana, 1852; Massachusetts, 1835) have not had a published flora for around a century. Of the remaining 38, some 28 possess State lists that are more or less up to date: Alabama, 1901; Arkansas, 1891, with additions to 1926; California, 1925; Colorado, 1906; Connecticut, 1910, with additions to 1930; District of Columbia, 1919, with additions to 1930; Indiana, 1900, with additions to 1935; Iowa, 1933; Kansas, 1893; Michigan, 1904, with additions to 1908; Mississippi, 1921; Missouri, 1935; Montana, 1900, with additions to 1905; Nebraska, 1936; Nevada, 1925 (but so completely combined with that of Utah that it is a regional rather than a State flora); New Jersey, 1890; New Mexico, 1915; New York, 1924; North Dakota, 1918; Ohio, 1932, with additions to 1939; Oklahoma, 1930; Pennsylvania, 1903; South Dakota, 1932; Texas, 1938; Utah, 1925 (see remark under Nevada); Vermont, 1937; Washington, 1906; West Virginia, 1913, with additions to 1936. Of these 28 State floras, 18 were published or were brought approximately up to date by supplements within the last 20 years (that is, subsequent to 1919).³² The published floras of the remaining 10 States cannot be regarded as at all adequately reflecting existing knowledge (Illinois, 1876; Maine, 1892, with additions to 1897; Maryland, 1910; Minnesota, 1884, with additions to 1887; New Hampshire, 1874; North Carolina, 1899; Rhode Island, 1920, an unreliable list; Tennessee, 1901; Wisconsin, 1883; Wyoming, 1896). A severe critique might reduce from 28 to not more than about 13 the number of States with moderately satisfactory floras.

One or more local floras covering larger or smaller areas are cited in this list for all the 48 States except Nevada. California, Indiana, Iowa, Massachusetts, Michigan, New York, Pennsylvania, and Washington are particularly well supplied with them. Insofar as the identification of vascular plants is concerned, all the States are covered by local or regional floras with the exception of Arizona, for which only Gray's unfinished Synoptical Flora, now more than 40 years old, is available; two floras of the State, however, are in an advanced state of preparation.

West Indies.—Good modern floras are available of the Bahama Islands (Britton and Millspaugh, 1920), Hispaniola (Urban, 1920–21), Jamaica (Fawcett and Rendle, 1910—; not yet finished), and Puerto Rico (Britton and Wilson, 1923–30; also Urban, 1903–11), all of which except those by Urban are descriptive floras. In the Lesser Antilles about half the islands are the subject of lists or descriptive floras; in order from north to south, Anegada, American

³¹ Gronovius' *Flora Virginica*, although of great historical importance, can hardly be regarded as a real flora of the State, as it was based on the collections of a single botanist made in only a part of the whole area, gives almost no specific localities, and, moreover, uses the old polynomial nomenclature, although its second edition (1762) was published after the *Species Plantarum*.

³² One more flora has been published, too late for inclusion in this List, bringing the total of more modern State floras to 19. GATES, F. C. ANNOTATED LIST OF THE PLANTS OF KANSAS: FERNS AND FLOWERING PLANTS (cover title, *FLORA OF KANSAS*). 266 p. maps. Topeka, 1940. (Publication of Agricultural Experiment Station, Kansas State College of Agriculture and Applied Science.)—In addition, a very full State flora of Indiana and an unannotated check list of the flora of West Virginia have appeared in 1940. DEAM, C. C. *FLORA OF INDIANA*. 1236 p. illus. (incl. maps). Indianapolis, 1940. (Publication of Department of Conservation, Division of Forestry, Indiana.)—CORE, E. L. A CATALOGUE OF THE VASCULAR PLANTS OF WEST VIRGINIA. *Castanea* 5: 31–73. 1940.

Virgin Islands (formerly Danish West Indies; St. Thomas, St. John, and St. Croix), Anguilla, Dutch West Indies (St. Martin, St. Eustatius, Saba), Guadeloupe, Martinique, and St. Vincent. There are also comparatively ancient lists of the plants of St. Bartholomew (1826) and Barbados (1848). The others, including such sizable islands as Barbuda, St. Christopher, Nevis, Antigua, Montserrat, Dominica, St. Lucia, and Grenada, are covered only by Grisebach's inclusive and now rather out-of-date *Flora of the British West Indian Islands* (1859-64) and his list of plants of the Lesser Antilles (1857). The greatest gap in the botanical literature of the West Indies, however, is the lack of any flora of Cuba since the relatively ancient lists of Grisebach (1866) and Sauvalle (1873), both based primarily on Charles Wright's collections.

SOUTH AMERICA.—Of the 14 units (13 countries and Patagonia, treated separately for convenience), only 4 possess recent and essentially complete lists of vascular plants—Patagonia (Macloskie, 1903-14, an annotated list with keys and brief descriptions), Surinam (list by Pulle, 1906, as well as his descriptive flora, still in process of publication), Uruguay (list by Herter, 1930, with subsequent additions), and Venezuela (list by Knuth, 1926-28). Reiche's descriptive *Flora de Chile* (1896-1911), in itself not too trustworthy, was left incomplete before reaching the end of the dicotyledons, and Gay's earlier flora (1845-54) is now completely out of date. A descriptive flora of Peru, by Macbride and collaborators, is now in course of publication. Martius' *Flora Brasiliensis* (1840-1906), the greatest of all published floras both in actual size and in number of species described, befitting the country whose flora is the richest in the world, is in great part too old to be of much more than historical value.

None of the seven remaining countries has even a comprehensive list of species, with the exception of that for British Guiana, now almost a century old. For Argentina, the chief sources are Grisebach's two lists of 1874 and 1879, based on the collections of Lorentz, Hieronymus, and Schickendantz, and the catalog by Hauman and others, which reaches only to the Droseraceae (Engler and Prantl system) and of which no new part has appeared since 1923; there are, however, numerous local lists and papers on medicinal and woody plants. Bolivia has only the lists of plants collected by Rusby, Bang, Herzog, Buchtien, and R. S. Williams. Our knowledge of the general flora of British Guiana rests almost entirely on the collections of Robert and Richard Schomburgk, made about a century ago and worked up principally by Bentham, then listed by Richard Schomburgk in 1848 in a form not easy to consult; there are several papers on Mount Roraima and a recent flora by Graham of the Kartabo region, with keys and brief descriptions.

Colombia and Ecuador, of all South American countries, are the most incompletely represented in floristic literature. Both are highly mountainous, with great numbers of endemic species, but the only available general floras, in both cases never completed, date from the 1860's, and there are no real local floras. French Guiana has had no general flora, although the woods and useful plants are well covered, and the chief sources for knowledge of the flora are Sagot's very fragmentary list and Benoist's list of his own collections. For Paraguay, the principal basis is Chodat's account of Hassler's col-

lections, with Morong and Britton's list of the plants collected by Morong around Asuncion.

It has seemed worth while to attempt to select a list of 100 floras and floristic works of greatest general utility. In this list Africa, Insular Floras, and North America are represented by approximately the same number of titles, whereas Australasia and South America are assigned a smaller number; the former because it can be adequately covered thus, the latter because few works of broad scope are available. The list follows the alphabetical arrangement of titles in the body of the work. An asterisk indicates works in process of publication, a dagger those that were never completed.

AFRICA ³³ (25 titles).—†Engler, *Die Pflanzenwelt Afrikas*; Battandier and Trabut, *Flore de l'Algérie*; *Carrisso, *Conspectus Florae Angolensis*; Durand and Durand, *Sylloge Florae Congolanae*; Muschler, *Manual Flora of Egypt*; †Pirota, *Flora della Colonia Eritrea*; Chiovenda, *Flora Somala*; Dinklage, *Verzeichnis der Flora von Liberia*; Durand and Barratte, *Florae Libycae Prodrumus*; Pampanini, *Plantae Tripolitanae*, and his *Prodrumo della Flora Cirenica*; Jahandiez and Maire, *Catalogue des Plantes du Maroc*; Bews, *Introduction to the Flora of Natal and Zululand*; Burkill, *List of the Known Plants Occurring in British Central Africa*, Nyasaland, and the British Territory North of the Zambesi; Maire, *Études sur la Flore et la Végétation du Sahara central*; Harvey and Sonder, *Flora Capensis*; Marloth, *Flora of South Africa*; Eyles, *Record of Plants Collected in Southern Rhodesia*; Dinter, *Index der aus Deutsch-Südwestafrika bis zum Jahre 1917 bekannt gewordenen Pflanzenarten*; Engler, *Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete*; *Peter, *Flora von Deutsch-Ostafrika*; *Burt Davy, *Manual of the Flowering Plants and Ferns of the Transvaal with Swaziland*; Bonnet and Barratte, *Catalogue Raisonné des Plantes Vasculaires de la Tunisie*; Hutchinson and Dalziel, *Flora of West Tropical Africa*; *Oliver, *Flora of Tropical Africa*.

AUSTRALASIA (11 titles).—Bentham, *Flora Australiensis*; Maiden and Betche, *Census of New South Wales Plants*; Moore and Betche, *Handbook of the Flora of New South Wales*; Ewart and Davies, *Flora of the Northern Territory*; Bailey, *Comprehensive Catalogue of Queensland Plants*, and his *Queensland Flora*; Black, *Flora of South Australia*; Ewart, *Flora of Victoria*; Gardner, *Enumeratio Plantarum Australiae Occidentalis*; Cheeseman, *Manual of the New Zealand Flora*; Rodway, *Tasmanian Flora*.

INSULAR FLORAS (25 titles).—Hemsley, *Report on the Scientific Results of the Voyage of H. M. S. Challenger . . . Botany*; Trelease, *Botanical Observations on the Azores*; Britton, *Flora of Bermuda*; Pitard and Proust, *Les Iles Canaries, Flore de l'Archipel*; Chevalier, *Les Iles du Cap Vert*; Schenck, *Vergleichende Darstellung der Pflanzengeographie der subantarktischen Inseln*; Skottsberg, *Botanical Survey of the Falkland Islands*; Menezes, *Flora do Archipelago da Madeira*; *Académie Malgache, *Catalogue des Plantes de Madagascar*; Palacký, *Catalogus Plantarum Madagascariensium*; Baker, *Flora of Mauritius and the Seychelles*; Jacob de Cordemoy, *Flore de*

³³ CHEVALIER, *FLORE VIVANTE DE L'AFRIQUE OCCIDENTALE FRANÇAISE*, should probably be included in this list, but the work has not been available for examination.

l'île de la Réunion; Balfour, Botany of Sokotra and Abd-el-Kuri; Merrill, Bibliographic Enumeration of Bornean Plants; Miquel, Flora Indiae Batavae (including the supplement, *Prodromus Florae Sumatranæ*); Stewart, Botanical Survey of the Galapagos Islands; Hillebrand, Flora of the Hawaiian Islands; Koorders, *Exkursionsflora von Java*; Skottsberg, Phanerogams of the Juan Fernandez Islands; Kanehira, Enumeration of Micronesian Plants; Guillaumin, *Catalogue des Plantes Phanérogames de la Nouvelle-Calédonie*; Schumann and Lauterbach, *Die Flora der Deutschen Schutzgebiete in der Südsee*; Merrill, Enumeration of Philippine Flowering Plants; Drake, *Illustrationes Florae Insularum Maris Pacifici*; Brown and Brown, *Flora of Southeastern Polynesia*.

NORTH AMERICA (30 titles).—*New York Botanical Garden, *North American Flora*; Macoun, *Catalogue of Canadian Plants*; Simmons, *Survey of the Phytogeography of the Arctic American Archipelago*; Marie-Victorin, *Flora Laurentienne*; Hemsley, *Biologia Centrali-Americana* . . . Botany; Standley and Record, *Forests and Flora of British Honduras*; Standley, *Flora of Costa Rica*, his *Trees and Shrubs of Mexico*, and his *Flora of the Panama Canal Zone*; Standley and Calderón, *Lista Preliminar de las Plantas de El Salvador*; Lange, *Conspectus Florae Groenlandicae*; †Gray, *Synoptical Flora of North America*; Britton and Brown, *Illustrated Flora of the Northern United States, Canada and the British Possessions*; Gray's *New Manual of Botany*; Small, *Flora of the Southeastern United States*, and his *Manual of the Southeastern Flora*; *Abrams, *Illustrated Flora of the Pacific States*; Howell, *Flora of Northwest America*; Rydberg, *Flora of the Rocky Mountains and Adjacent Plains*, and his *Flora of the Prairies and Plains of Central North America*; Jepson, *Manual of the Flowering Plants of California*; Tidestrom, *Flora of Utah and Nevada*; Wootton and Standley, *Flora of New Mexico*; Coulter, *Botany of Western Texas*; Piper, *Flora of the State of Washington*; Grisebach, *Flora of the British West Indian Islands*, and his *Catalogus Plantarum Cubensium*; Urban, *Flora Domingensis*; *Fawcett and Rendle, *Flora of Jamaica*; Britton and Wilson, *Botany of Porto Rico and the Virgin Islands*.

SOUTH AMERICA (9 titles).—Grisebach, *Symbolae ad Floram Argentinam*; Martius, *Flora Brasiliensis*; †Reiche, *Flora de Chile*; Chodat, *Plantae Hasslerianae*; Macloskie, *Flora Patagonica*; *Macbride, *Flora of Peru*; *Pulle, *Flora of Surinam*; Herter, *Enumeratio Plantarum Vascularium Sponte Nascentium Republica Orientali Uruguayensi*; Knuth, *Initia Florae Venezuelensis*.

ANNOTATED LIST OF FLORAS AND FLORISTIC WORKS

AFRICA

In addition to the division by countries and colonies, the headings Sahara, South Africa, and West Africa are used for titles not falling readily under the names of political units.

Durand, Théophile, and Schinz, Hans. *Conspectus florae Africae, ou énumération des plantes d'Afrique*. v. 1, pt. 2, v. 5. 25 cm. Bruxelles [etc.], 1895-98.

List of vascular plants, with references, synonyms, local and general range. Incomplete: v. 1, pt. 2, *Ranunculaceae*—*Frankeniaceae* (Bentham and Hooker system); v. 5, *Monocotyledoneae* and *Gymnospermae*. No more published.

Engler, Adolf. *Die pflanzenwelt Afrikas insbesondere seiner tropischen gebiete*. *Grundzüge der pflanzenverbreitung in Afrika und die charakterpflanzen*

Afrikas. v. 1-3, v. 5, h. 1. illus., plates, maps. 25.5 cm. Leipzig, 1908-25. (Die vegetation der erde . . . hrsg. von A. Engler und O. Drude, v. 9.)

Vol. 1: Phytogeographical; lists of principal collectors, with their localities and dates, and map of routes (p. xvi-xxviii); general features of flora, plant formations, etc., of the 68 phytogeographical regions recognized (including Cape Verde, Canary, and Madeira Islands), with numerous lists of species and references to principal publications; climate, soils, plant formations, etc., of Africa as a whole; vol. 2, running account of pteridophytes, gymnosperms, and monocotyledons, with keys to genera and mention of more important species; vol. 3, the same. Casuarinaceae—Umbelliferae; vol. 4, to cover Sympetalae and cellular plants (not yet published); vol. 5, pt. 1, ecology; vol. 5, pt. 2-5, to cover botanical explorations and bibliography (not yet published). In several cases the lists of species given in this work are the fullest available.

Rochebrune, A. T. de. Toxicologie africaine. Étude botanique, historique, ethnographique, chimique, physiologique, thérapeutique, pharmacologique, posologique, etc., sur les végétaux toxiques et suspects propres au continent africain et aux îles adjacentes. 2 v. 631 fig. 25.5 cm. Paris, 1897 (1896)—99.

Detailed account of poisonous vascular plants, systematically arranged, with synonymy, vernacular names, range, description, history, chemistry, physiology, therapeutics, pharmacology, etc. Incomplete; Ranunculaceae—Mimosaceae. Originally appeared in Bul. Soc. Hist. Nat. Autun v. 8-12. 1895-99.

Shantz, H. L., and Marbut, C. F. The vegetation and soils of Africa. x, 263 p. (incl. map). plates. 21 cm. N. Y., 1923. (American Geographical Society. Research series no. 13.)

Cited here for its bibliography (p. 85-112), consisting chiefly of works on travel, alphabetically arranged by authors. Very few strictly botanical works are listed.

Thonner, Franz. The flowering plants of Africa. An analytical key to the genera of African phanerogams. xvi, 647 p. 150 pl. on 75, map. 25.5 cm. London, 1915. (German edition, 1908, Die blüthenpflanzen Afrikas.)

Bibliography, keys to families and genera, somewhat annotated; statistics, glossary, brief list of vernacular names.

ALGERIA

See also Egypt (Issa Bey; Schweinfurth, Arabische pflanzenamen); Sahara.

The following publication has not been available for examination:

Doumergue, François. Herborisations oranaises. Première partie: Oran. Bul. Soc. Géog. et d'Arch. Oran v. 33, fasc. 136. 76 p. 1913. (Cited from Bul. Soc. Bot. France 62: 90, 1915.)

General

Battandier, J. A., and Trabut, Louis. Algérie. Plantes médicinales, essences et parfums. 39 p. 24 cm. Alger, 1889.

Annotated list of wild and cultivated species. Much the same material appears in Battandier, J. A. Algérie. Plantes médicinales. 61 p. 21 cm. Alger-Mustapha, 1900. (Exposition universelle de 1900.)

— and Trabut, Louis. Flore analytique et synoptique de l'Algérie et de la Tunisie. 406 p. 22.5 cm. Alger, 1902 [1904].

Flora of 3,316 vascular plants, in form of keys, with very brief indication of range.

— and Trabut, Louis. Flore de l'Algérie contenant la description de toutes les plantes signalées jusqu'à ce jour comme spontanées en Algérie et catalogue des plantes du Maroc. 2 v. 6 pl. 25.5 cm. Alger, 1888-95.—Supplément aux phanérogames. 90 p. 24 cm. Paris, Alger, 1910.

Descriptive flora of Algeria, with keys; additional species recorded by Ball from Morocco are listed, but not described. Replaces (as to Monocotyledones) their "Flore d'Alger" (1884). The supplement includes also a list of herbaria consulted and bibliography. The first volume is by Battandier alone.

Bouquet, J. Matière médicale indigène de l'Afrique du Nord. Trav. Off. Natl. Mat. Prem. Vég. (Paris) Notice 8. 29 p. 1921.

Includes annotated list of medicinal plants from region of Algeria, Tunis, Sahara, etc.

Cosson, Ernest. *Compendium florae atlanticae, seu expositio methodica plantarum omnium in Algeria necnon in Regno Tunetano et Imperio Maroccano hucusque notarum, ou flore des États Barbaresques, Algérie, Tunisie et Maroc*. 2 v. 2 maps. 24.5 cm. Paris, 1881-87.

(1) Alphabetical lists of collectors, well annotated; gazetteer, bibliography, phytogeographical regions, map showing itineraries of principal collecting expeditions, list of principal localities with names of collectors; (2) list of botanists supplementary to annotated list of collectors; descriptive flora of vascular plants (in Latin), with references and vernacular names. Incomplete (Ranunculaceae—Cruciferae). A second edition of the "Répertoire alphabétique des principales localités . . .," with map, separately published in 1882 (142 p.).

Ducellier, Léon, and Maire, René. *Végétaux adventices observés dans l'Afrique du Nord*. *Bul. Soc. Hist. Nat. Afrique Nord* 14: 304-325. 1923; 16: 126-131. 1925.

Annotated list of vascular plants; sources of origin, etc.

Foureau, Fernand. *Essai de catalogue des noms arabes et berbères de quelques plantes, arbustes et arbres algériens et sahariens ou introduits et cultivés en Algérie*. 48 p. 28 cm. Paris, 1896.

Alphabetical list of Arab and Touareg or Berber vernacular names, with botanical equivalents.

France. Comité régional d'Algérie. *Répertoire des plantes médicinales de l'Afrique du Nord*. 62 p. 24 cm. Alger, 1924.

Directions for collecting commercial material of drug plants; annotated list of species, alphabetically arranged by vernacular names. Originally published in *Revue Hort. Algérie* v. 27. 1923.

France. Ministère de la guerre—Direction des affaires de l'Algérie. *Catalogue explicatif et raisonné de l'Exposition permanente des produits de l'Algérie . . . suivi du catalogue méthodique des produits algériens à l'Exposition universelle de Paris en 1855*. 207 p. 22.5 cm. Paris, 1855.

Includes classified and annotated lists of useful plants.

Lapie, Georges, and Maige, Albert. *Flore forestière illustrée comprenant toutes les espèces ligneuses de l'Algérie et les espèces ligneuses les plus répandues en Tunisie, au Maroc et dans le midi de la France*. . . . viii, 357 p. 881 fig., map. 22 cm. Paris, [1915?].

A popular handbook of forestry for Algeria; includes illustrated keys and alphabetically arranged list of 482 species; vernacular names.

Maire, René. *Contributions à l'étude de la flore de l'Afrique du Nord* 1-28. *Bul. Soc. Hist. Nat. Afrique Nord* 9: 172-183. 1918; 12: 42-52, 180 (bis)-187. 1921; 13: 37-44, 209-220. 1922; 14: 118-159. 1923; 15: 70-92, 95-106, 330-395. 1 fig. 1924; 17: 104-126. 1926. —*Mém. Soc. Sci. Nat. Maroc* no. 15. 58 p. 1926. —*Bul. Soc. Hist. Nat. Afrique Nord* 19: 29-66. 1928. —*Bul. Soc. Sci. Nat. Maroc* 8: 128-143. 1928. —*Bul. Soc. Hist. Nat. Afrique Nord* 20: 12-42. 1929. —*Mém. Soc. Sci. Nat. Maroc* no. 21. 19 p. 1929. —*Bul. Soc. Hist. Nat. Afrique Nord* 20: 171-220. 1929; 22: 30-72, 275-330. 3 fig. 1931; 23: 163-222. 1932; 24: 194-232. 1933. —*Bul. Soc. Sci. Nat. Maroc* 13: 263-275. 1933. —*Bul. Soc. Hist. Nat. Afrique Nord* 25: 286-326. 1934; 26: 184-234. 1935; 27: 203-238, 241-270. pl. 5-16. 1936; 28: 332-388. pl. 29-40. 1937; 29: 403-458. pl. 19. 1938; 30: 255-314, 327-370. pl. 17, 19-20. 1939.

New species, new records, and critical notes on a large number of species from Morocco, Algeria, Libya, and the Sahara. The series includes 3,101 separate numbered notes (through 1939). No. 27 (1939) by Maire and M. Weiller.

— Les progrès des connaissances botaniques en Algérie depuis 1830. 229 p. 8 port. Paris, 1931.

Chronologically arranged account of botanical explorations, with biographical notes on collectors and included bibliography.

Trabut, Louis. *Flore du nord de l'Afrique. Répertoire des noms indigènes des plantes spontanées, cultivées et utilisées dans le nord de l'Afrique*. 355 p. 24 cm. Alger, 1935. (1830-1930. Collection du centenaire de l'Algérie. Études scientifiques.)

Previous work on vernacular names; alphabetical list of botanical names, with vernacular equivalents; alphabetical list of vernacular names, with references to generic names; similar list of French vernacular names.

Local

Bonnet, Edmond, and Maury, Paul. D'Aïn-Sefra à Djenien-Bou-Resq. Voyage botanique dans le Sud-Oranais. Jour. de Bot. 2: 277-301, 312-322. 1888.

Botanical explorations of authors, with lists of species of different localities; list of vascular plants, Characeae, and mushrooms collected, with localities.

Clary, L. R. Catalogue des plantes observées à Daya (Algérie). Bul. Soc. Hist. Nat. Toulouse 22: 115-172. 1888.

Physiography, general features of flora, botanical explorations; list of vascular plants, with localities.

Debeaux, Odon. Catalogue des plantes observées dans le territoire de Boghar (Algérie). Actes Soc. Linn. Bordeaux 23 (III, 3): 159-208, 247-317. 1860. (Reprinted, 121 p. Bordeaux, 1861.)

Physiography, geology, etc.; annotated list of 730 vascular plants.

— Flore de la Kabylie du Djurjura (Algérie). Revue Bot. (Toulouse) 11: 1-416d. 1893.—Additions et corrections . . . l. c. 12: 113-160. 1894. (Reprinted, 468 p. Paris, 1894.)

Physiography, botanical explorations, bibliography; list of 1,710 vascular plants with references and localities; phytogeography.

Doumergue, François. Les hauts plateaux oranais de l'ouest au point de vue botanique. Compt. Rend. Assoc. Franç. Avanc. Sci. 25 (2): 374-403. 1897.

Itineraries, topography; list of vascular plants and Characeae collected by author, with localities; critical notes on several species.

Ducellier, Léon. Étude phytogéographique des dunes de la baie d'Alger. Revue Gén. Bot. 23: 273-308, 321-340. 8 fig. (incl. 2 maps), pl. 6-7. 1911.

Soil, climate, plant associations; unannotated list of vascular plants. The dunes occupy a stretch about 15 km. long.

Fitting, Hans, and Littmann, Enno. Arabische pflanzenamen aus der umgegend von Biskra (Algerien). Zeitschr. Deut. Morgenländ. Gesell. 65: 336-348. 1911.

Annotated alphabetical list of vernacular names, with botanical equivalents.

Flahault, Charles. Rapport sur les herborisations de la Société. Bul. Soc. Bot. France 53 (Sess. Extr.): lxxxviii-clxxix. pl. 15-38, tab. 1907.

Running account of topography and vegetation, with numerous lists of species observed at different localities in Oran by the Société Botanique de France; brief bibliography.

Gay, Hippolyte. Florule de Blida. Revue Bot. (Toulouse) 7: 87-155. 1888-89. (Reprint, 68 p.)

Cultivated plants, plant zones; annotated list of vascular plants; also list of mosses and hepatics (by L. Corbière).

Hanoteau, Adolphe, and Letourneux, Aristide. Flore de la Kabylie. In their La Kabylie . . . 2. éd. rev. et augm. v. 1, p. 107-208. Paris, 1893. (1st ed., 1868.)

Botanical explorations, general features of flora; list of vascular (1,619 species) and cellular plants, with localities, prepared with the aid of E. Cosson.

Hochreutiner, B. P. G. Le Sud-oranais. Études floristiques et phytogéographiques faites au cours d'une exploration dans le sud-ouest de l'Algérie en 1901. Annuaire Conserv. et Jard. Bot. Genève 7/8: 22-276. 1 fig., 24 pl. 1904.

Itinerary, plant habitats with lists of species, origin of flora; list of vascular plants collected by author, with localities; lists of cellular plants, galls, and insects collected (by other authors).

Julien, Adr. Flore de la région de Constantine; comprenant la description des caractères botaniques des plantes de la contrée, de leurs propriétés et leurs usages chez les européens et chez les indigènes. 332 p. 21.5 cm. Constantine, 1894.

General features of flora, botanical stations with lists of species; annotated catalog of vascular and cellular plants (over 1,400 species), with notes on uses.

Lapie, Georges. Étude phytogéographique de la Kabylie du Djurjura. Revue Géog. 3: 1-154. 12 fig. (incl. 2 maps), 3 maps. 1909.

Includes numerous lists of vascular and cellular plants in the account of different plant formations, but no complete list; bibliography.

Lefranc, Edmond. *La Calle. Topographie, botanique et climatologie.* 26 p. 24 cm. Paris, 1867. (Reprinted with some additions from *Bul. Soc. Bot. France* v. 9 and v. 12.)

Botanical explorations, physiography, plant zones; annotated list of vascular plants collected by the author in 1859-61.

— Catalogue des plantes récoltées dans la subdivision de Sidi-bel-Abbès, pendant les années 1863 et 1864. *Bul. Soc. Bot. France* 13: 26-31, 45-51, 65-71. 1866.

List of vascular plants and Characeae, with localities.—See also his *Sidi-bel-Abbès. Topographie, climatologie et botanique.* l. c. 12: 383-395. 1865.

Maire, René. *Contribution à la étude de la flore des montagnes de Numidie.* *Bul. Soc. Hist. Nat. Afrique Nord* 18: 71-76. 1927.

List of species collected by the author in 1924-25, mostly new to the region.

— Contribution à l'étude de la flore du Djurdjura. *Bul. Soc. Hist. Nat. Afrique Nord* 5: 235-238. 1913; 7: 49-61. 1916.

Plant associations, phytogeography; records of species new or rare in the region.

— La végétation des montagnes du Sud Oranais. *Bul. Soc. Hist. Nat. Afrique Nord* 7 [bis]: 210-292. pl. 4-17. 1916.

Itinerary; physiography; botanical explorations and plant formations of different localities; short list of Arabic names; list of new or noteworthy vascular and cellular plants; phytogeography, bibliography.

— and Wilczek, Ernest. *Florule des Iles Habibas.* *Bul. Soc. Hist. Nat. Afrique Nord* 26 [bis]: 61-75. 2 fig. (maps), 2 pl. 1936.

Topography, geology, general features of flora, plant associations, origin of flora; list of cellular and vascular plants, list of cultivated plants. Based on collections of authors and Faure in 1934. (Off coast of Oran.)

Reboud, Victor. *Catalogue des plantes les plus intéressantes observées dans le cercle de Bou-Saâda (Algérie), de septembre 1864 à juillet 1865.* *Bul. Soc. Bot. France* 14: 130-136. 1867.

List of vascular plants, with localities.—See also Nicholas, G. *Liste des plantes récoltées à Bou-Saâda et observations sur quelques unes d'entre elles.* *Bul. Soc. Hist. Nat. Afrique Nord* 6: 139-148. pl. 1. 1914.

— Catalogue des plantes phanérogames croissant spontanément dans le cercle de Souk-Ahras. *Bul. Acad. Hippone* 14: 12-53. 1879. (Preprinted, 44 p. Bône, 1878.)

General features of flora, physiography, etc.; list of 944 vascular plants, briefly annotated as to locality.

Sériziat, Charles. *Catalogue des plantes de Tébessa.* In his *Études sur Tébessa et ses environs.* *Bul. Acad. Hippone* 22: 186-215. 1887.

Annotated list of 320 vascular and cellular plants.—See also Desorthés. *Supplément* . . . l. c. 24: 120-129. 1891.

Société Botanique de France. *Liste des plantes observées aux environs de Biskra et dans l'Aurès* . . . Session de Biskra (avril 1892). 26 p. map. 24.5 cm. Alger, 1892.

Unannotated lists of plants from several localities.

Trabut, Louis. *D'Oran à Mécheria. Notes botaniques et catalogue des plantes remarquables.* 36 p. 24 cm. Alger, 1887.

General features of flora; catalog of species.

ANGLO-EGYPTIAN SUDAN

See also Egypt (Issa Bey; Schweinfurth, *Beitrag*); Ethiopia (Chiovenda, *Plantae novae*); Northern Rhodesia (Fries); West Africa (Gürke; Oliver).

General

Broun, A. F., and Massey, R. E. *Flora of the Sudan.* 502 p. 19 cm. London, 1929.

Key to families (by J. Hutchinson); list of spermatophytes, with vernacular names, brief descriptions, localities, uses.

Local

Chipp, T. F. The Imatong Mountains, Sudan. *Bul. Misc. Inform. Kew* 1929: 177-197. pl. 8-11, map. 1929.

Geography, topography, general features of flora, phytogeography; annotated list, by M. B. Moss, of cellular and vascular plants collected by Chipp. The Imatong Mountains lie just north of the boundary between Anglo-Egyptian Sudan and Uganda.

Crowfoot, G. M. Flowering plants of the northern and central Sudan . . . Forming a companion volume to the List of the Sudan flora. xxv p. 1 fig. (map), plates. 22.5 cm. Leominster, [1928].

General features of flora; note on certain species of *Acacia* known as "samr" and "seyal"; figures of about 175 plants, with very brief descriptions (color of flowers, etc.), and vernacular names. The "List of the Sudan flora" referred to is Broun and Massey's Flora.

Grant, J. A. The botany of the Speke and Grant expedition, an enumeration of the plants collected during the journey of the late Captain J. H. Speke and Captain (now Lieut.-Col.) J. A. Grant from Zanzibar to Egypt . . . *Trans. Linn. Soc. Bot. v. 29.* 190 p. 136 pl., map. 1872-75.

Itinerary; annotated list of native names, with uses; annotated list of 702 vascular plants. (Dicotyledones, Monocotyledones-Glumiferae, by D. Oliver; Monocotyledones-Petaloidae, Filices, etc., by J. G. Baker.) (From landing on edge of Kingam River opposite Zanzibar to Cairo, via west side of Victoria Nyanza and the Nile; does not include Zanzibar.)

Lester-Garland, L. V. Some plants from Jebel Marra, Darfur. *Jour. Bot.* 59: 46-48. 1921.

List of vascular plants collected by Captain H. Lynes in 1920, with altitudes and general range.—See also Norman, Cecil. Plants from Jebel Marra, Darfur. *Jour. Bot.* 62: 134-139. 1924.

Muriel, C. E. Appendix to Report on the Sudan forests. 2d ed. 11 p. Cairo, 1901.

List of plants mainly from the White Nile, the Blue Nile, and Kordofan, alphabetically arranged by vernacular names, with Arabic and Hameg vernacular names, habitat, remarks on uses.

Rein, G. K. Die im englischen Sudan, in Uganda und dem nördlichen Kongo-staate wild und halbwild wachsenden nutzpflanzen. *Tropenpflanzer* 13: 374-379, 532-539. 1909; 15: 217-220, 387-393. 1911.

Annotated list of principal useful wild plants, grouped by uses.

Schweinfurth, Georg. Bericht über die botanischen ergebnisse der ersten Niam-Niam-reise, Januar-Juli 1870. *Bot. Zeit.* 29: 301-317, 324-341, 351-366, 372-376. illus. 1871.

Statistics, general features of flora, running systematic account of principal plants (usually with generic names only), notes on principal cultivated plants.

Flora des Soturma an der nubischen küste. *Verh. K. K. Zool.-Bot. Gesell. Wien* 15: 537-560. 1865.

General features of flora; annotated list of 265 vascular plants, with vernacular names, based on the author's collections in 1864-65; list of 71 vascular plants from Makaur Island; list of 62 vascular plants from Wady Gadireh, Egypt (on the Red Sea, lat. 25° N.).

Pflanzen-namen der Bega-sprache zwischen Suakin und Berber . . . *Zeitschr. Gesell. Erdk. Berlin* 4: 334-346. 1869.

Systematic list of 146 plants, with vernacular names; short lists of species collected at various localities on the Blue Nile and the White Nile.

Vegetations-skizzen vom Bachr-el-Gasal. *Bot. Zeit.* 28: 81-88. 1870.

Brief sketch of flora, with mention of economic plants; no list of species.

Shaw, W. B. K. The flora of the Libyan Desert. *Bul. Misc. Inform. Kew* 1934: 281-289. 1934.

General features of flora; list of spermatophytes collected by author on two trips extending from Cairo as far as Tekro and northern Dar Fur. For account of his first trip see, under same title, l. c. 1931: 161-166.

ANGOLA (PORTUGUESE WEST AFRICA)

See also Ethiopia (Engler, Ueber die hochgebirgsflora); West Africa (Gürke, Oliver).

General

Carrisso, L. W., ed. *Conspectus florae angolensis*. v. 1, fasc. 1. (Ranunculaceae-Malvaceae por A. W. Exell e F. A. Mendonça.) (ix-xxiii, 176 p. map.) 24.5 cm. Lisboa, 1937.

Topography, plant zones, etc. (in Portuguese and English); list of vascular plants, with keys, references, synonymy, citation of specimens (with indication of herbaria), habit, habitat, flowering dates, general range.

Ficalho, F. M. C. de M., *conde de*. *Plantas uteis da Africa Portuguesa*. 279 p. 23 cm. Lisboa, 1884.—Índice para a obra *Plantas uteis* . . . por A. S. Barjona de Freitas. xvii p. Lisboa, 1908.

History of cultivated plants; annotated systematic list of phanerogams, with vernacular names. Includes only Dicotyledones and Gymnospermae. Refers chiefly to Angola, but includes also the other Portuguese possessions in Africa. A corrected and somewhat enlarged revision of his *Nomes vulgares de algumas plantas africanas, principalmente angolenses*, published in *Bol. Soc. Geog. Lisboa* 2: 601-619, 707-716. 1881; 3: 479-492, 612-623. 1882.

Gossweiler, John. *Bibliografia das viagens feitas em Angola por exploradores de diversas nacionalidades, cujos relatórios se referem à flora, fauna e agricultura*. *Bol. Serv. Agr. e Com., Colon. e Flor. Angola* 7 (28/31, Ja./D. 1935): 121-125. 1937.

Unannotated list of 55 titles, alphabetically arranged by authors.

— *Elementos para a história de exploração botânica de Angola*. *Itinerário e relação dos viajantes e exploradores que fizeram colecções botânicas em Angola*. *Bol. Soc. Broteriana* II, 13: 283-305. map. [1939?]

Brief account of botanical explorations; alphabetical list of collectors, with biographical data and account of work in Angola.

— *Relação dos viajantes que coligiram plantas em Angola actualmente depositadas nos institutos botânicos de Londres, Berlim, Paris, Montpellier, Zurich, Lisboa, Coimbra, Cabo de Boa Esperança e Washington onde estão sendo estudadas desde 1868*. *Bol. Serv. Agr. e Com., Colon. e Flor. Angola* 7 (28/31, Ja./D. 1935): 127-130. 1937.

Alphabetical list of collectors, with dates and localities visited.

Welwitsch, Frederico. *Synopse explicativa das amostras de madeiras e drogas medicinaes e de outros objectos mormente ethnographicos colligidos na provincia de Angola enviados á Exposição Internacional de Londres em 1862*. incluindo os que foram offerecidos ao gabinete pharmacologico da Escola Medico-Cirurgica de Lisboa. 56 p. 21 cm. Lisboa, 1862.

Annotated lists of 149 timbers and medicinal and other useful plants, with vernacular names and uses.

Local

Exell, A. W., Good, R. D'O., and others. Mr. John Gossweiler's plants from Angola and Portuguese Congo. *Jour. Bot.* 64 (Suppl.): 1-24, 1-40. 1 fig. 1926; 65 (Suppl.): 25-80, 41-72. 1 fig. 1927; 66 (Suppl.): 81-176. 1 fig. 1928; 67 (Suppl.): 177-203, 73-120. 1 fig. 1929; 68 (Suppl.): 121-144. 1930; 69 (Suppl.): 145-152, 153-160, 161-168. 2 fig. 1931; 70 (Suppl.): 205-212, 213-220, 221-228. fig. 1-2. 1932; 71 (Suppl.): 229-236, 237-243, 169-175. fig. 3. 1933.—Dicotyledones. Addendum. l. c. 73 (Suppl.): 1-12. 1935; 74 (Suppl.): 13-24. 1936.

List, with localities and collector's numbers, general range, and frequent field notes. Polypetalae and Gamopetalae separately paged.—See also *Pteridophyta*, by A. H. G. Alston, l. c. 72 (Suppl.). 11 p. 1934. *Index to Polypetalae* 71 (Suppl.): 237-243, *Gamopetalae*, p. 171-175.

Hiern, W. P., Rendle, A. B., and others. *Catalogue of the African plants collected by Dr. Friedrich Welwitsch in 1853-61*. 2 v. in 6. port. 22 cm. London, 1896-1901.

Biography and bibliography of Welwitsch; annotated list of vascular plants, with often ample field notes or descriptions. Vol. [1], 4 pts., *Dicotyledons* by Hiern; v. 2, pt. 1, *Monocotyledons and Gymnosperms*, by A. B. Rendle; v. 2, pt. 2, *Cryptogamia*, by various authors. Refers entirely to Angola.

Sousa, A. de Figueiredo Gomes e. Contribuição para o estudo da flora do distrito de Mossâmedes. Bol. Agência Geral Colón. (Lisboa) 6: 41-64. 15 fig. 1930.

General features of flora; annotated tabular list of phanerogams collected, the families arranged alphabetically. The same text, with fewer illustrations and two families added at the end of the list, is given in Bol. Serv. Agr. e Com. Angola 3: 76-87. 1933.

Warburg, Otto. Kunene-Sambesi-expedition, H. Baum, 1903. xi, 593 p. 106 fig., 13 pl. (1 col.), map. 25 cm. Berlin, 1903.

Includes list by numerous authors of cellular and vascular plants (p. 155-427) collected in southern Angola, with localities, general range, and frequent annotations; tabular list by G. Hegi, showing general range of plants collected; phyto-geography by Warburg; annotated list of useful plants, classified by uses, by Warburg.

BASUTOLAND

See also South Africa.

Local

Phillips, E. P. A contribution to the flora of the Leribe Plateau and environs: with a discussion on the relationships of the floras of Basutoland, the Kalahari, and the southeastern regions. Annals So. African Mus. 16: 1-379. 3 fig. (maps), 7 pl. (incl. map). 1917.

Geology, general features of flora, alien flora, statistics; annotated list of vascular plants, with extralimital range, native names and uses.

BECHUANALAND

See South Africa.

BECHUANALAND PROTECTORATE

See also South Africa; West Africa (Oliver).

Local

Bremekamp, C. E. B., and Obermeyer, A. A. Sertum kalahariense, a list of the plants collected. In Scientific results of the Vernay-Lang Kalahari expedition, March to September, 1930. Annals Transvaal Mus. 16: 399-442. 1935.

List of 326 vascular plants, with data and general range, collected on expedition from Gaborones (Bechuanaland Protectorate) to Ghanzi, across Ngamiland to the junction of the Zambesi and Chobe (Kwando) Rivers, then through Southern Rhodesia, ending near Makarikari Lake. Of the species collected in the central Kalahari, 204 are additions to N. E. Brown's list of 1909.

Lugard, E. J., and Brown, N. E. The flora of Ngamiland. Bul. Misc. Inform. Kew 1909: 81-146. map. 1909.

Physiography, climate, general features of flora (by Lugard); annotated list of 374 vascular plants, of which 92 are described as new species.

Seiner, Franz. Pflanzengeographische beobachtungen in der Mittel-Kalahari. In Engler, A. Beiträge zur flora von Afrika XXXVIII. Bot. Jahrb. Engler 46: 1-50. 4 pl. 1911.

Account of plant formations, with included running list of species observed by author, between Serue (Serowe) and Rietfontein-Nord via Tsau.

BELGIAN CONGO

See also Anglo-Egyptian Sudan (Rein); Cameroons (Mildbraed, Botanik); Ethiopia (Engler, Ueber die hochgebirgsflora); Tanganyika (Mildbraed); West Africa (Gürke; Oliver).

General

Dewèvre, Alfred. Les plantes utiles du Congo. 2. éd., rev. et corr. 65 p. 22.5 cm. Bruxelles, Paris, 1894

General considerations; annotated list of cultivated and wild plants, classified by uses.

Duchesne, Fl. Les essences forestières du Congo Belge III. Leurs dénominations indigènes. 265 p. 27.5 cm. Ixelles-Bruxelles, 1938.

Alphabetical list of vernacular names with botanical equivalents, with region where used, dialect, and source of names; systematic list of botanical names, with vernacular equivalents.

Durand, Théophile. Les explorations botaniques au Congo Belge et leurs résultats. Bul. Cl. Sci. Acad. Roy. Belg. 1909: 1347-1374. 1909.

Chronological account of botanical explorations, with bibliography.

— and Durand, Hélène. Sylloge florae congolanae (Phanerogamae). 716 p. 26.5 cm. Bruxelles, 1909. (Also issued as Bul. Jard. Bot. État Bruxelles v. 2. 1910.)

List of botanical collectors, statistics; list of 3,546 phanerogams, with references, synonyms, localities, and collectors; statistics for botanical districts. Summarizes knowledge of the flora through 1908.—See also Wildeman, É. de. Additions à la flore du Congo. Bul. Jard. Bot. État Bruxelles 4: 1-241. 1914; 5: 117-268, 269-364, 365-412. 1916-19; 6: 1-64, 65-129. 35 pl. 1919; 7: 1-88, 271-316. 1920-21. (Lists of additions to Sylloge, with localities and collectors' numbers. The number of species is said to have reached 6,300 in 1915.)

Staner, Pierre. Plantes congolaises à fruits comestibles. Pub. Inst. Natl. Étude Agron. Congo Belge Sér. Sci. no. 4. 56 p. 9 fig. [1935.]

Annotated systematic list of native plants with edible fruits, with vernacular names and description of fruit; key to the genera, based on the fruit; index of vernacular names.

— and Boutique, R. Matériaux pour l'étude des plantes médicinales indigènes du Congo Belge. Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°. v. 5, fasc. 6. 228 p. 17 fig. (partly on plates). 1937.

Annotated systematic list of plants, with range and uses; bibliography.

Wildeman, Émile de. A propos de médicaments indigènes congolais. Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°. v. 3, fasc. 3. 127 p. 1935.

General considerations, plants used for particular diseases; list of vernacular and botanical names.

— Documents pour l'étude de l'alimentation végétale de l'indigène du Congo Belge. Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°. v. 2, fasc. 4. 263 p. 1934.

General considerations; alphabetical list of vernacular and botanical names, with brief annotations under the latter; bibliography.

— Les forêts congolaises et leurs principales essences économiques. 214 p. map. 25 cm. Bruxelles, 1926. (Bibliothèque-Congo no. 19.)

Includes (p. 117-207) briefly annotated list of timber trees, alphabetically arranged by botanical names.

— Notices sur des plantes utiles ou intéressantes de la flore du Congo. 2 v. illus., plates. 23 cm. Bruxelles, 1903-08. (Publication de l'État indépendant du Congo.)

Discusses various species at considerable length, and includes annotated alphabetical list of vernacular names, with botanical equivalents, where known, of the woods of the Congo and neighboring regions, with corresponding list of botanical names (v. 1, p. 353-385).

— Remarques à propos de la forêt équatoriale congolaise. Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°. v. 2, fasc. 2. 120 p. 3 maps. 1934.

Cited here for its bibliography (p. 112-120) of publications relating to the forests of the Belgian Congo.

Local

Burt, B. D. A botanical reconnaissance in the Virunga volcanoes of Kigezi Ruanda, Kivu. Bul. Misc. Inform. Kew 1934: 145-165. 1 fig. (map), pl. 7. 1934.

Running account of author's trip in 1930 with mention of plants collected. The Virunga or Mufumbiro volcanoes are a particularly isolated range of peaks that lie about 120 miles south of the Ruwenzori ice cap, in the great divide between the east tropical African savannas and the forests of the Congo basin.

They are partly in Belgian Congo (Parc National Albert) and partly on the boundary between Uganda and the mandated territory of Ruanda and Urundi and the boundary between the latter and Belgian Congo.

Cotton, A. D. The arborescent *Senecios* of the Virunga Mountains. *Bul. Misc. Inform. Kew* 1931: 289-297. 1 fig. (map). 1931.

Cited here for its annotated list of works on the flora of the Virunga Mountains.

Delevoy, Gaston. Les essences forestières du Katanga. His La question forestière au Katanga, v. 2. xv, 525 p. illus. 23.5 cm. Bruxelles, 1929.

Alphabetical list of woody plants, with references, vernacular names, general and local range, description, uses.

Engler, Adolf. Verzeichniss der auf der Graf v. Götzen'schen expedition bei der besteigung des Kirunga gesammelten pflanzen. In Götzen, G. A. von. Durch Afrika von ost nach west . . . p. 374-384. Berlin, 1895.

List of 79 species, collected at 2,000 meters elevation and above on Kirunga. Mount Kirunga is in the Mufumbiro group.

Fishlock, C. W. L., and Hancock, G. L. R. Notes on the flora and fauna of Ruwenzori, with special reference to the Bujuku Valley. *Jour. East Africa and Uganda Nat. Hist. Soc.* no. 44. p. 205-229. 12 pl. 1932.

Explorations, plant zones with lists of plants collected by authors in 1931; notes on fauna, bibliography.

Ghesquière, Jean. Note sur la forêt de Lonkala (Sankuru). *Bul. Agr. Congo Belge* 16: 549-555. fig. 218-219. 1925.

Includes systematic list of timbers, with vernacular names and brief description of wood.

Gillet, Just., and Paque, Égide. Plantes principales de la région de Kisantu. Leur nom indigène, leur nom scientifique, leurs usages. (Notes botaniques sur la région du Bas-et Moyen-Congo, fasc. 1.) *Annales Mus. Congo Bot.* V, [v. 4], fasc. 1. 120 p. 22 fig. 1910.

Alphabetical annotated list of vernacular names, with Portuguese names, scientific names and uses; cross index of scientific names.

Hauman, Lucien. Esquisse de la végétation des hautes altitudes sur le Ruwenzori (Résultats botaniques de la Mission belge pour l'exploration scientifique du Ruwenzori, 1932). *Bul. Cl. Sci. Acad. Roy. Belg.* V, 19: 602-616, 702-717, 900-917. illus., map. 1933.

Plant associations; list of 75 vascular plants known from above 3,800 meters altitude; climate, soil, fauna, ecology, phytogeography.

La flore. In Grunne, X. de, and others. Vers les glaciers de l'équateur. Le Ruwenzori. Mission scientifique belge 1932. p. 251-259. fig. 123. Bruxelles, 1937.

Physiography, general features of flora; annotated list of 72 vascular plants now known from 3,800-5,000 meters elevation; bibliography.

Lebrun, Jean. Les essences forestières des régions montagneuses du Congo oriental. *Pub. Inst. Natl. Étude Agron. Congo Belge Sér. Scient.* no. 1. 263 p. (incl. 28 fig., 18 pl. (pl. 1, map)). 1935. (Les essences forestières du Congo Belge II.)

Plant zones, bibliography; descriptive account of trees, with keys, references, vernacular names, citation of exsiccatae, uses.

Rapport sur un voyage d'études botaniques dans le district du Kibali-Ituri. *Bul. Agr. Congo Belge* 25: 386-437. fig. 62-75 (incl. map). 1934.

Includes several short lists of vascular plants collected by author, the longest being one from Mount Ruwenzori.

Rendle, A. B., Baker, E. G., and Moore, S. LeM. An account of the plants collected on Mount Ruwenzori by Dr. A. G. F. Wollaston. *Jour. Linn. Soc. Bot.* 38: 228-279. pl. 16-19. 1908.

Botanical explorations, general features of flora; annotated list of phanerogams.

Robyns, Walter. La colonisation végétale des laves récentes du volcan Rumoka (laves de Kateruzi). *Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°*. v. 1, no. 1. 32 p. 10 pl., fold. map. 1932. (Contribution à l'étude de la végétation du Parc National Albert.)

Includes list of 27 plants (26 vascular) found on Volcan Rumoka, north of Lake Kivu, after the volcanic eruption of 1912 which completely destroyed the vegetation.

Staner, Pierre. Contributions à l'étude de la flore du Parc National Albert et du Kivu. I-II. Plantes récoltées par M. le Dr. Scaetta. *Revue Zool. et Bot. Afric.* 23: 208-230. 1933; 24: 213-224. 1933.

Lists of vascular plants, with data. The Parc National Albert is directly north-east of Lake Kivu, partly in Belgian Congo, partly in Ruanda and Urundi.

Vermoesen, Camille. Manuel des essences forestières du Congo Belge (région équatoriale et Mayombe). xii, 282 p. illus., col. plates. 18.5 cm. Bruxelles, 1923.

Pocket manual of principal useful trees, with vernacular names, range, description, and uses. This is pt. 1 of Les essences forestières du Congo Belge.

Wildeman, Émile de. Campagne du Kasai. Mission permanente d'études scientifiques. Résultats de ses recherches botaniques et agronomiques. viii, 463 p. 45 pl. (i. e. 46), 2 maps. 28 cm. Bruxelles, 1910.

Includes (p. 229-440) list of vascular plants collected in the Bassin du Kasai, with occasional annotations; physiography, etc.

Contribution à l'étude de la flore du Katanga. cxliv, 264 p. (incl. 19 pl.). 25 cm. Bruxelles, 1921.—Supplément I-V. 26 cm. Bruxelles, 1927-32.

Botanical distribution, with florulas of Albertville-Toa, Nyassa, Tanganyika, Victoria Nyanza, Lukafu, Elisabethville, Kundelungu, etc.; notes on useful trees, statistics; list of known vascular plants, with localities, collectors' names, and vernacular names (indexed). Including the first three supplements, the known flora amounted to 2,230 species.

Documents pour l'étude de la géo-botanique congolaise. *Bul. Soc. Roy. Bot. Belg.* v. 51, fasc. 3. 406 p. 117 pl. (incl. maps). 1913.

General features of flora, phytogeography; lists of species, with remarks on vegetation, from coast region (Moanda, Banana-Nemloa, Boma), Mayombe (Bingila), Bas-Congo (Matadi-Vivi, Kisanu, Kimuenza, Léopoldville), the tropical forest region (region of the Equator, Nouvelle-Anvers, Beni, Irumu, Mwambi, Avakubi, Yambuya, Buta-Bima, Imese, Likimi, Lake Léopold II, Bena-Dibele, Kondue), Haut-Ubangi and Uele (Fort-Sibu-Rapides de Bangui), Kasai (Popokabaka, Katola, Madibi, Luano, Kikwite, Atènes-Illongonga, Dilolo-Kimpuki), Moyen-Katanga or Haut-Congo (Nyangwe-Kasongo), Lake Albert Edward and Ruwenzori (Ninagongo, Rutschuru, west slope of Ruwenzori (Butago)), region of Lakes Kivu and Tanganyika (Albertville-Toa), Haut-Katanga (Lukafu, Elisabethville, Kundelungu, Manika), Nile region.

Études de systématique et de géographie botaniques sur la flore du Bas- et du Moyen-Congo. *Annales Mus. Congo Bot.* V, v. 1-3. 230 pl. 1903-12.

Vol. 1, list of cellular and vascular plants, with references, localities, collectors' numbers, and occasional annotations; based on specimens from various collectors examined by the author since 1903; vol. 2, same since 1906; vol. 3, a later series of lists.

Études sur la flore des districts du Bangala et de l'Ubangi (Congo Belge). xvii, 464 p. col. front., 52 fig., 20 pl., map. 27.5 cm. Bruxelles, 1911. (Plantae Thonnerianae congolenses ser. 2.)

Includes (p. 267-403) list of vascular plants known from the region.

Mission Émile Laurent (1903-1904). 2 v. illus., 138 fig., 185 pl., port., map. 29 cm. Bruxelles, 1905-07.

Includes partly annotated list of vascular plants collected, with references and localities; list of vernacular names of laticiferous plants, with localities and botanical names (p. 527-534). (Lower Congo and Kasai River region.)

Mission forestière et agricole du Comte Jacques de Briey . . . au Mayumbe (Congo Belge). xiv, 468 p. 62 fig., 15 pl., port., 2 fold. tab. 23 cm. Bruxelles, 1920.

Includes (p. 235-266) list of plants collected; also much information on woods and other useful plants.

Plantae bequaertianae. Études sur les récoltes botaniques du Dr. J. Bequaert, chargé de missions au Congo Belge (1913-1915). v. 1-6, fasc. 1. 22 cm. Gand, Paris, 1921-32.

Lists of vascular plants, with data; families not in strictly systematic order. The collections were made chiefly in the regions of Mayombe, Semliki, Ruwenzori, and the valley of the Rutshuru near Lake Albert.

Wildeman, Émile de. Sur des plantes médicinales ou utiles du Mayumbe (Congo Belge) d'après des notes du R. P. Wellens (1891-1924). Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°. v. 6, fasc. 4. 97 p. 1933.
Alphabetical annotated list of botanical and vernacular names.

BRITISH SOMALILAND PROTECTORATE

See also Ethiopia (Engler, Ueber die hochgebirgsflora); Italian Somaliland (Chiovenda, Flora Somalia); West Africa (Gürke; Oliver).

General

Drake-Brockman, R. E. British Somaliland. xvi, 334 p. illus., plates, map. 23 cm. London, 1912.

Includes chapter on "the flora and fauna" (p. 221-238), with general account of vegetation; on "products of commercial value" (p. 239-270), with account of principal plant and animal products; Appendix III, "List of trees and plants the fruit or leaves of which are eaten by the Somalis" (p. 281-283), an annotated list of vernacular names, with botanical names when known; Appendix IV, "A collection of the flora of British Somaliland communicated to Kew during the years 1905-11, together with their vernacular names" (p. 285-294), an unannotated list of 318 plants, not in systematic order; Appendix VI, "Some notes on the myrrh, frankincense, bdelliums, and gum resins of British Somaliland" (p. 301-323).

———. The economic resources of British Somaliland. Trans. Internatl. Cong. Trop. Agr. 3d, London, 1914. 2: 488-500. 1917.

Includes section on wild and cultivated vegetable products of economic importance.

Local

Franchet, A. R. Sertulum somalense. In Revoil, Georges. Fauna et flore des pays Comalis. [pt. 9.] 70 p. 6 pl. Paris, 1882.

Bibliography; list of 144 vascular plants, with localities.

Oliver, Daniel. Flora of Somali-Land. In James, F. L. The unknown horn of Africa. p. 317-323. 4 pl. London, 1888.

List of nearly 150 vascular plants collected by James and Thrupp, with localities. The specimens were collected in British Somaliland and Ethiopia.

CAMEROONS (INCLUDING CAMEROUN)

See also Ethiopia (Engler, Ueber die hochgebirgsflora); French West Africa (Chevalier); West Africa.

General

Bertin, André. Les bois du Cameroun. 312 p. plates, maps. 25 cm. Paris, 1920. (Mission d'études forestières envoyée dans les colonies françaises par les Ministères de la guerre, de l'armement et des colonies, t. 4.)

Includes (p. 81-96) lists of scientific and vernacular names. Refers mostly to the French mandate.

Local

Braun, Johannes. Botanischer bericht über die flora von Kamerun. Mitt. Forschungsreis. u. Gelehr. Deut. Schutzgeb. 2: 141-176. 1889.

Annotated list of fungi and vascular plants, collected by the author in 1887-1889, in Kamerun, Gross Batanga, and Malimba.

Gilg, Ernst. Die bis jetzt bekannten hohen bäume Kameruns, welche wertvolles holz geben oder als nutzhölzer in frage kommen könnten. Notizbl. K. Bot. Gart. Berlin 5: 123-131. 1909.

List with heights, vernacular names, and occasional annotations.

Hédin, Louis. Étude sur la forêt et les bois du Cameroun sous mandat français. 230 p. plates, map. 25.5 cm. Paris, 1930.

Includes (p. 41-200) annotated list of trees of Cameroun, with vernacular names, notes on uses, and description of wood characters; bibliography.

Hooker, J. D. On the plants of the temperate regions of the Cameroons Mountains and islands in the Bight of Benin; collected by Mr. Gustav Mann . . . Jour. Linn. Soc. Bot. 7: 171-240. 1864.

Itinerary, phytogeography; list of vascular and cellular plants, with localities and general range, from Cameroon Mountain and the islands of Fernando Po, São Thomé, and Príncipe.

Mildbraed, Johannes. Botanik. In Wissenschaftliche ergebnisse der zweiten deutschen Zentral-Afrika-expedition 1910-1911 unter führung Adolf Friedrichs, Herzogs zu Mecklenburg. v. 2. 202 p. 90 pl. Leipzig, 1922.

Includes general account of vegetation and lists of species collected from Belgian Congo (Kimuenza, Stanley Pool to Molundu), Kamerun (Molundu, Jukaduma, Kadei, Lomie, Ebolowa, and Sangmelima, Kribi), and the islands of Annobon (p. 146-164) and Fernando Po (p. 164-195), the last two lists including also species recorded in the Flora of tropical Africa.

Probeflächen-aufnahmen aus dem Kameruner regenwald. Notizbl. Bot. Gart. Berlin 10: 951-976. 1930.

Includes partly annotated running list of vascular plants collected by author at Likomba, with some vernacular names.

Von den Bulus genutzte wildwachsende pflanzen des Südkameruner waldlandes. Notizbl. K. Bot. Gard. Berlin App. 27. 43 p. 1913.

Annotated list, classified by uses, with descriptions, vernacular names and uses; systematic list of plants mentioned, with vernacular names.

Zur kenntnis der vegetationsverhältnisse Nord-Kameruns. Bot. Jahrb. Engler 65: 1-52. 1932.

General features of flora between Bongor and Garua; annotated list of vascular plants collected or observed by author and others; phytogeography.

Santesson, C. G. Einige drogen aus dem Kamerun-gebiete und ihre einheimische verwendung. Arkiv Bot. v. 20A, no. 8. 34 p. 1926.

Annotated list of 42 species, with vernacular names and uses; list classified by uses; list of scientific and vernacular names.

CAPE OF GOOD HOPE

See also South Africa.

General

Sim, T. R. The forests and forest flora of the Colony of the Cape of Good Hope. vii, 361 p. 160 pl., port., map. 32.5 cm. Aberdeen, Scotland, 1907.

Forests, economic aspects, etc.; keys to genera; annotated descriptive flora of woody plants.

Local

Adamson, R. S. The vegetation and flora of Robben Island. Trans. Roy. Soc. So. Africa 22: 279-296. pl. 13-14. 1934.

History, climate, geology, soils, vegetation; tabular list of spermatophytes, lists of cultivated plants. Robben Island lies off the entrance to Table Bay, 4 miles west of Blaauwberg.

Bolus, Frank, and Bolus, Louisa. Key to the flora of the Cape Peninsula. Annals Bolus Herb. 1: 22-35, 116-125, 173-184. 1914-15.

Keys to families, genera, and species, intended to supplement Bolus and Wolley-Dod's "List of the flowering plants and ferns . . ." Key to genera and species incomplete (Ranunculaceae-Anacardiaceae).

Bolus, Harry, and Wolley-Dod, A. H. A list of the flowering plants and ferns of the Cape Peninsula, with notes on some of the critical species. Trans. Soc. African Phil. Soc. 14: 207-373. 1903.

Physiography, general features of flora, plant associations, vertical range, statistics, phytogeography, effect of fires, etc.; annotated list of 2,351 vascular plants and Characeae. (Small peninsula on which Cape Town is situated.)

Compton, R. H. The flora of the Whitehill district. Trans. Roy. Soc. So. Africa 19: 269-329. 1931.

Topography, climate, etc.; annotated list of over 700 vascular plants. The area covered is from Bantams on the west to Baviaans on the east and from

the summit of Ngaap Kop on the north to the crest of the Witteberg Range on the south; the total area being about 40 square miles.

Duthie, A. V. List of vascular cryptogams and flowering plants of the Stellenbosch Flats. *Annals Univ. Stellenbosch* v. 8, sect. A, no. 4. 52 p. 1930.

Annotated list of vascular plants.

Dyer, R. A. The vegetation of the divisions of Albany and Bathurst. *Mem. Bot. Survey So. Africa* no. 17. 138 p. illus. (maps), plates. 1937.

Mainly ecological; includes sketch of botanical explorations, topography, geology, economic plants, bibliography.

Galpin, E. E. A contribution to the knowledge of the flora of the Drakensberg. *Rep. So. African Assoc. Adv. Sci.* 6 (1908): 209-229. 1909.

Author's itinerary in 1904; list of vascular plants collected, with data. This was the first botanical collection from the Cape Colony part of the Drakensberg.

Levy, M. R. A guide to the flora of the Cape Peninsula. xv, 284 p. 199 fig., 3 col. pl. 22.5 cm. Cape Town, Johannesburg [1929].

Glossary, keys to families and genera; briefly descriptive catalog of genera, with indication of number of species and mention of occasional species. Covers essentially same area as Bolus and Wolley-Dod's "List of the flowering plants and ferns of the Cape Peninsula."

Miller, O. B. A list of some native names of trees, shrubs, etc., in use in the Transkeian Territories. *Bul. Forest Dept. Union So. Africa* no. 8. 23 p. 1923.

List of vernacular names, with botanical equivalents; alphabetical list of botanical names, with Xosa vernacular names and notes on uses, etc. In both English and Dutch.

Muir, John. The vegetation of the Riversdale area, Cape Province. *Mem. Bot. Survey So. Africa* no. 13. 82 p. map. 1929.

Mainly ecological, but includes account of botanical explorations, geology, etc.

Pearson, H. H. W., and others. List of the plants collected in the Percy Sladen memorial expeditions, 1908-9, 1910-11. *Annals So. African Mus.* 9: 30-59, 61-90, 129-192, 193-272, 355-448. 16 (i. e. 17) fig., 8 pl. 1912-17.

Enumeration of vascular and cellular plants, by various authors; not in systematic order, but indexed (p. 431-448). The itineraries of the various expeditions are summarized on pages 359 to 361. The collections are chiefly from western Cape of Good Hope, Bushmanland, Namaqualand, and Great Namaqualand.

Pegler, Alice. On the flora of Kentani. *Annals Bolus Herb.* 2: 1-14, 112-128, 163-184. 1916-18.

Physiography, climate, phenology; annotated list of vascular plants. (On southeast coast, 32°30' S. Lat., 28°18' E. Long.)

Phillips, E. P. Some notes on a collecting trip to French Hoek. *African Jour. Sci.* 16: 450-478. 1919.

Topography, geology, ecology, statistics of flora; annotated list of 335 spermatophytes collected by author in 1913.

Salisbury, F. S. Naturalised plants of Albany and Bathurst. *Rec. Albany Mus.* 3: 163-177. 1919.

Annotated list of vascular plants.

Schönland, Selmar. List of the flowering plants found in the districts of Albany and Bathurst, Cape Colony. *Rec. Albany Mus.* 2: 44-64, 97-136. 1907.

Physiography, etc.; annotated list of phanerogams. Incomplete (Cycadaceae-Anacardiaceae).

Phanerogamic flora of the divisions of Uitenhage and Port Elizabeth. *Mem. Bot. Survey So. Africa* no. 1. 118 p. 1 fig. (map). 1919.

Topography, geology, climate, statistics, plant formations, phytogeography; list of 2,332 phanerogams, with localities.

Sim, T. R. Sketch and check list of the flora of Kaffraria. 92 p. 19 cm. Cape Town, 1894.

Unannotated list (2,449 species) of vascular plants, with occasional vernacular names; general remarks on physiography and vegetation.

DAHOMEY

See also West Africa.

General

Bertherand, E. L. *Acclimatation. Flore médicale de l'Afrique occidentale.* 16 p. 25 cm. [Alger.] 1886.

Annotated systematic list of medicinal and other useful plants of Dahomey, based on the observations and collections of Abbé Cordioux.

Local

Hua, Henri. Une collection botanique du haut Dahomey et de la vallée du Niger moyen, récoltée par M. de Gironcourt, en 1908-1910. *Bul. Mus. Hist. Nat. Paris* 22: 330-335. 1916.

Lists of angiosperms, with localities, collected at about 10° N. Lat. in Dahomey, and in "Niger moyen."

EGYPT

See also Anglo-Egyptian Sudan (Grant); West Africa (Oliver). E. Boissier, *Flora Orientalis* (which includes Egypt south to the first cataract), and G. E. Post, *Flora of Syria, Palestine, and Sinai*, will be given in the second part of this work. Papers referring particularly to the Sinai Peninsula, geographically a part of Asia but politically a part of Egypt, are included under Egypt.

General

Ascherson, Paul, and Schweinfurth, Georg. *Illustration de la flore d'Égypte.* *Mém. Inst. Égyptien* 2: 25-260. 1889 [1887].—Supplément. 1. c. 745-821. 1889.

Botanical explorations, phytogeographical divisions; list of 1,316 spontaneous vascular plants (including supplement) with vernacular names and indication of distribution by districts; cultivated plants listed but not numbered; index of vernacular names. The supplement includes a *Florula Rhinocoluræa* (list of 305 vascular and cellular plants known from the vicinity of El-Arich) and a *Florula Sirbonis* (list of 59 vascular and cellular plants collected at Sebakh-el-Berdâwil), both by Ascherson only. Both localities are in the Sinai Peninsula.

Hartmann, Fernande. *L'agriculture dans l'ancienne Égypte.* 332 p. 76 fig. 24.5 cm. Paris, 1923.

Includes chapter (p. 17-70) on wild and cultivated economic plants, classified by uses.

Issa Bey, Ahmed. *Dictionnaire des noms des plantes en latin, français, anglais et arabe.* xiv, 227 p. port. 28 cm. Le Caire, 1930.

Bibliography; alphabetical list of botanical names, with vernacular names in the languages mentioned; indices of vernacular names in each language, including that in Arabic (with Arabic numbering of pages).

Loret, Victor. *La flore pharaonique d'après les documents hiéroglyphiques et les spécimens découverts dans les tombes.* 2. éd., rev. et augm. 145 p. 25 cm. Paris, 1892. (1st ed., 1887.)

Bibliography; annotated list of 202 vascular and cellular plants; vernacular names in French, Hebrew, Arabic, Coptic, and hieroglyphic.

Muschler, Reno. *A manual flora of Egypt . . .* 2 v. 23 cm. Berlin, 1912. Descriptive flora of 1,503 vascular plants, with references, localities, and Egyptian names; botanical explorations, with bibliographical references; phytogeography, geology, climate; tables showing local distribution of all the species in Egypt, and their range in the Mediterranean Basin and elsewhere; list of cultivated plants; glossary; index of Arabian names.—See also Simpson, N. D. Some supplementary records to Muschler's *Manual flora of Egypt*. Including many species collected by G. W. Murray. *Bul. Tech. and Sci. Serv. Min. Agr. Egypt* no. 93. 59 p. 1930. (Records of 400 cellular and vascular plants, including 220 species and varieties not in Muschler's *Flora*.)

Ramis, A. I. *Bestimmungstabellen zur flora von Aegypten.* iv, 221 p. 25.5 cm. Jena, 1929.

Flora of vascular plants, in form of keys, briefly annotated.

Schweinfurth, Georg. Arabische pflanzennamen aus Aegypten, Algerien und Jemen. xxiv, 232 p. 32 cm. Berlin, 1912.

Includes Latin-Arabic and Arabic-Latin lists from Egypt; from Jemen (Yemen), after Forskål, and from Jemen and southern Arabia; from Biskra, and the coast and Tal Mountain region of northwest Algeria; also similar list of the parts of the date palm.

——— Beitrag zur flora Aethiopiens. 1. abth. xii, 311 p. 4 pl. 33.5 cm. Berlin, 1867.

Annotated list of 1,051 vascular and cellular plants of the Egyptian region, based on collections of C. G. Ehrenberg, Cienkowski, Schimper, and others, with localities and vernacular names; bibliography; compiled list of 3,947 (3,958) vascular plants (including cultivated plants, not all the latter numbered) known from the Nile region, with brief indication of range. No more published. The second list, by Schweinfurth and P. Ascherson, bears the title: "Aufzählung sämtlicher zur zeit bekannten phanerogamen- und gefässkryptogamen-arten aus dem gesamtgebiete der Nil-Länder." It covers Egypt proper, Nubia proper, Kordofan, Sennaar, Abyssinia, Bahr-el-Abiad, and the Ukereve region.

Sherborn, C. D. Bibliography of scientific and technical literature relating to Egypt, 1800-1900. ii, 155 p. 27 cm. Cairo, 1915. (Reprint of prel. ed., 1910.)

Unannotated list, arranged alphabetically by authors, with key in form of subject index.

Société horticole d'Alexandrie. Liste des plantes cultivées en Égypte. ii, 190 p. 22 cm. Alexandrie, 1901.

Briefly annotated tabular lists, the species divided by habit, etc.

Woenig, Franz. Die pflanzen in alten Aegypten. Ihre heimat, geschichte, kultur und ihre mannigfache verwendung im sozialen leben, in kultus, sitten, gebräuchen, medizin, kunst. Nach den eigenen bildlichen darstellungen der alten Aegypter, pflanzenresten aus gräberfunden, zeugnissen alter schriftsteller und den ergebnissen der neuen forschungen. 2. aufl. 425 p. 177 fig. 22 cm. Leipzig, 1897. (1st ed., 1886.)

Deals mainly with useful and medicinal plants.

Local

Christensen, Carl. Index to Pehr Forsskål: Flora aegyptiaco-arabica 1775 with a revision of Herbarium Forsskålii contained in the Botanical Museum of the University of Copenhagen. Dansk Bot. Arkiv v. 4, no. 3. 54 p. 1922.

History of Forsskål's herbarium, bibliography, Forsskål's itinerary, list of new genera described by Forsskål, with synonymy, list of species listed in Flora Aegyptiaco-arabica, with identifications, similar list of new species described by Rottbøll and Vahl from Forsskål's plants, index.

Decaisne, Joseph. Énumération des plantes recueillies par M. Bové dans les deux Arabies, la Palestine, la Syrie et l'Égypte. Ann. Sci. Nat. II, Bot. 2: 5-18, 239-270. 1834; 3: 257-291. pl. 7. 1835.

List of 283 cellular and vascular plants from Sinai collected mostly by Bové, with localities. Reprinted with the title *Florula Sinaica*, a subtitle in the original.

Drar, Mohammed. Enumeration of the plants collected at Gebel Elba during two expeditions. Bull. Tech. and Sci. Serv. Min. Agr. Egypt no. 149. vii, 123 p. 29 pl. 1937.

Botanical explorations; annotated list of vascular plants, with localities. (Southeast corner of Egypt just north of 22° N. Lat.)

Ducros, A. H. Essai sur le droguier populaire arabe de l'Inspectorat des pharmacies du Caire. Mém. Inst. Égypte v. 15. viii, 165 p. 9 pl. 1930.

Annotated list of 233 species, with vernacular names (French and Arabic), brief description and uses.

Hart, H. C. Some account of the fauna and flora of Sinai, Petra, and Wady 'Arabah. x, 225 p. 12 pl., 2 maps. 29.5 cm. London, 1891.

Includes (p. 79-120) list of vascular and cellular plants collected by author, with localities, also (p. 121-172) "An analysis of the flora of Sinai and general remarks on its botany, and that of the Dead Sea basin," containing tabular

list of 509 vascular plants of the Sinaitic Peninsula, with remarks on phytogeography and a list of the tropical flora of the basin, etc. Pages 1-120 reprinted from *Trans. Roy. Irish Acad.* 28 (Science): 373-452. 1885.

Hume, W. F. List of plants noted in the Sinai Peninsula. In his *The topography and geology of the peninsula of Sinai (southeastern portion)*. p. 207-233. Cairo, 1906.

List of 650 plants (532 vascular) with Arabic name, localities, and name of collector. An account of botanical explorations and general features of flora is given on pages 96 to 111.

Hurst, H. A. List of desert-plants collected at Ramleh, near Alexandria, Egypt, from September 1875 to April 1876. *Mem. Lit. and Phil. Soc. Manchester* III, 6: 141-156. 1879.

Botanical explorations, etc; unannotated list of phanerogams.

Klunzinger, C. B. Die vegetation der ägyptisch-arabischen wüste bei Koseir. *Zeitschr. Gesell. Erdk. Berlin* 13: 432-462. 1878.

General features of the area and of its flora, plant zones; running account of principal plants, grouped by habitats. Koseir (Kosseir, Qosér) is on the Red Sea coast, about 26° N. Lat.

Kotschy, Theodor. Die vegetation und der canal auf dem Isthmus von Suez. *Oesterr. Bot. Zeitschr.* 8: 41-54. 1858.

General features of flora; lists of species from different localities.

Muschler, Reno. Beitrag zur kenntnis der flora von "el-Tor." (Sinai-halbinsel.) *Verhandl. Bot. Ver. Prov. Brandenb.* 49: 66-146. 1908.

Topography, geology, climate; annotated list of 204 spermatophytes, with references, local and extralimital range, vernacular names; botanical explorations, general features of flora, phytogeography, alphabetical list of vernacular names, index.

Range, Paul. Die flora der Isthmuswüste. Auf grund des vom verfasser in den jahren 1915/16 gesammelten, von . . . Dr. Georg Schweinfurth bestimmten materials unter benutzung der einschlägigen literatur bearbeitet. *Veröffentl. Gesell. Palästina-Forsch.* 7. 44 p. map. 1921.

Botanical explorations, geology, climate, general features of flora, annotated list of 240 spermatophytes collected by the author in 1915-16, with data; tabular list of 479 spermatophytes known from the area, with indication of occurrence in neighboring regions (Sinai, Egypt, Palestine); briefly annotated bibliography.

Rikli, Martin, and Rübel, Eduard. Zur kenntnis von flora und vegetationsverhältnissen der Libyschen Wüste. *Vierteljahrsschr. Naturf. Gesell. Zürich* 73 (Beibl. 15, Festschrift Hans Schinz): 190-232. 1 fig. (map), pl. 7-8. 1928.

Climate, botanical regions; annotated lists of species from Egyptian Marmara, the Libyan Desert in Egypt, Siwa Oasis, and the Nile Valley from Assuan to Wadi Halfa.

Schneider, Oscar. Ueber die flora der wüste von Ramleh. *Sitzungs-Ber. Naturw. Gesell. Isis Dresden* 1871: 153-161. 1871.

Plant zones; annotated list of plants collected by author.

Schweinfurth, Georg. The flora of the desert surrounding Helwān (east). In *May, W. P. Helwān and the Egyptian desert*. 2d ed. p. 16-38. plates. London, 1904.

General features of flora; list of 191 spermatophytes known from desert east of Helwān.

—, Ascherson, Paul, and Taubert, Paul. *Primitiae florae Marmaricae*. *Bul. Herb. Boissier* 1: 433-449, 584-603, 644-682. pl. 20. 1893.

Geography, topography, general features of flora, botanical investigations (with footnote references); annotated list of 401 plants (378 vascular). The term Marmarica refers to the coast of Cyrenaica and Egypt, between 23° and 29° E. Long.—See also Stapf, Otto. Additions to the flora Marmarica. *Bul. Misc. Inform. Kew* 1907: 365-369. 1907.—Also Pampanini, R., and Zanoni, V. Un manipolo di piante della Marmarica. *Bul. Soc. Bot. Ital.* 1919: 46-48. 1919.—Also Gauba, Erwin. Neue und seltene pflanzen aus der ägyptischen Marmarika. *Bot. Jahrb. Engler* 67: 275-289. 1935.

Zohary, Michael. Die phytogeographische gliederung der flora der Halbinsel Sinai. *Beih. Bot. Centralbl. abt. B.* 52: 549-621. 3 fig. (incl. map). 1935.

Topography, botanical explorations, general features of flora, phytogeography; tabular list of 942 vascular plants, with indication of biological form, distribution in the area, and phytogeographical relationships; bibliography.

ERITREA

See also Ethiopia (Chiovenda, *Plantae novae*); Libya (Cortesi); West Africa (Oliver). The following publication has not been available:

Cuoco, L. Fauna e flora medica e industriale della colonia Eritrea. 109 p. 12°. Napoli, 1898. (Cited from *Naturae Novitates* 20: 272. 1898.)

General

Chiovenda, Emilio. Vegetali utilizzati nella medicina indigena dell'Eritrea, Somalia, e regioni vicine. *Atti Cong. Studi Colon.* 1., Firenze, 1931. 7: 351-376. 1931.

Briefly annotated list, grouped by uses, with vernacular names.

Fiori, Adriano. Boschi e piante legnose dell'Eritrea. 428 p. 177 fig. (incl. pl.). 25 cm. Firenze, 1909-12.

Forestry regulations, general features of flora, plant formations, phytogeography, bibliography; annotated descriptive flora of woody plants; key to genera; table of specific gravities of woods; bibliography; index of vernacular names.

Pirotta, Romualdo. Flora della colonia Eritrea. *Annuario R. Ist. Bot. Roma* v. 8. 464 p. 12 pl. 1903-07.

Botanical explorations (with footnote references); annotated list of vascular plants with references, localities, and names of collectors; not in systematic order. Incomplete; the manuscript of fasc. 4, prepared by Chiovenda to complete the work, was lost by the printing establishment to which it was sent (Chiovenda, *Atti Cong. Studi Colon.* 1., Firenze, 1931. 3: 50. 1931).

Rovesti, Paolo. Medicamenti, aromi e droghe nei mercati indigeni dell'Eritrea. *Riv. Ital. Essen, Profumi e Piante Off.* 15: 19-29. illus. 1933.

Briefly annotated lists, alphabetically arranged by vernacular names.

Schweinfurth, Georg. Le piante utili dell'Eritrea. *Bol. Soc. Africana Italia* 10: 233-286. 1891. (Reprinted.)

Annotated list of useful plants, classified by uses, with vernacular names.

Tancredi, A. M. Notizie e studi sulla colonia Eritrea. viii, 276 p. 25 cm. Roma, 1913.

Includes annotated list (p. 109-117) of useful plants, with vernacular names, as well as general account of plant zones, cultivated plants, and woody vegetation (p. 96-107).

Local

Chiovenda, Emilio. Contributo alla conoscenza della flora del Paese dei Cunama (Eritrea). *Agricolt. Colon.* 18: 342-352. 1924.

List of vascular and cellular plants from region of Cunama and Baria collected by Corni, Calciatai, and Braccini.

— Le piante raccolte dai prof. G. Dainelli e O. Marinelli in Eritrea nel 1905-06. *Nuovo Gior. Bot. Ital. n. s.*, 26: 147-168. 1919.

List of vascular plants and Hepaticae collected in Assaorta.

— Le piante raccolte dal Dr. Nello Beccari in Eritrea nel 1905. *Nuovo Gior. Bot. Ital. n. s.*, 26: 89-114. 3 fig. 1919.

List of vascular plants collected mainly in the high basin of the Barca River, with localities.

Courbon, Alfred. Flore de l'île de Dissée (Mer Rouge). *Annales Sci. Nat.* IV, Bot. 18: 130-158. pl. 7. 1862.

Phytogeography, etc.; annotated list of 68 vascular plants.

Fiori, Adriano. Piante raccolte in nella colonia Eritrea nel 1909. *Nuovo Gior. Bot. Ital. n. s.*, 19: 412-462. 1912; 20: 345-394. 1913.

Annotated list of 970 vascular plants.

— Pteridophytae et Phanerogamae erythraeae a cl. I. Baldrati lectae et communicatae. *Nuovo Gior. Bot. Ital. n. s.*, 23: 466-494. 1916.

List of localities; list of vascular plants, with localities.

Lanza, Domenico, and Mattei, G. E. *Plantae erythraeae a L. Senni annis 1905-07 lectae*. *Bol. R. Orto Bot. e Giard. Colon. Palermo* 8: 73-123, 267-278. pl. 3-10. 1909; 9: 3-75. pl. 1-4. 1910.

List of 550 vascular plants, with synonymy, data, and frequent annotations.

Martelli, Ugolini. Contribuzione alla flora di Massaua. *Nuovo Gior. Bot. Ital.* 20: 359-371. 1888.

List of phanerogams, with data, collected by O. Beccari in 1870 and Dr. Arcadi-pane in 1886; short list of plants collected at Assab by Beccari in 1870.

Pasquale, G. A. Cenni sulla flora di Assab. *Atti R. Accad. Sci. Fis. e Mat. (Napoli)* s. 2, v. 1, no. 12. 12 p. 1888 (1885).

List of 61 plants (60 angiosperms), with localities and occasional vernacular names, collected by G. B. Licata.

Schweinfurth, Georg. Sammlung arabisch-aethiopischer pflanzen. Ergebnisse von reisen in den jahren 1881, 88, 89, 91 und 92. *Bul. Herb. Boissier* v. 2, app. II. p. 1-113. 1894; v. 4, app. II. p. 115-266. 1896; v. 7, app. II. p. 267-340. 1899. Annotated list of 870 vascular plants with data, frequent vernacular names and annotations, from Eritrea, also from Jemen and other parts of Arabia. Never completed; ends with Balsaminaceae (Engler and Prantl system).

Terracciano, Achille. Escursione botanica alle terre degli Habab. *Bol. Soc. Geog. Ital.* III, 5: 774-786, 987-991. map. 1892; 6: 30-40, 121-137, 214-228. 1893.

Account of author's explorations in 1892, with included mention of plants collected and observed.

— Florula di Anflah. Contribuzione alla conoscenza della flora dell'Africa orientale II. *Annuario R. Ist. Bot. Roma* 5: 89-121. pl. 7. 1894.

Phytogeography; list of 141 vascular plants, with localities; table showing local distribution of species listed.

ETHIOPIA

See also British Somaliland (Oliver); Egypt (Schweinfurth, Beitrag); Eritrea (Chio-venda, Vegetali utilizzati nella medicina); Italian Somaliland (Chioventa, Flora Somala); Libya (Cortesi); West Africa (Gürke; Oliver).

General

Hemsley, W. B. On the vegetable productions of Abyssinia. *Jour. Trav. and Nat. Hist.* 1: 309-318. 1868.

General features of flora; running account of principal useful plants, grouped by families.

Richard, Achille. Tentamen florae abyssinicae, seu enumeratio plantarum hucusque in plerisque Abyssiniae provinciis detectarum et praecipue a beatis doctoribus Richard Quartin Dillon et Antonio Petit (annis 1838-1843) lectarum. 2 v. 23.5 cm., and atlas of 102 (i. e. 103) pl. 49.5 cm. Parisiis, [1847-51]. (Voyage en Abyssinie . . . exécuté par . . . A. Lefebvre . . . Histoire naturelle, Botanique.)

Annotated descriptive flora of phanerogams.

Rovesti, Paolo. Indagini sui prodotti erboristici dei mercati abissini in Etiopia. *Riv. Ital. Essen., Profumi e Piante Off.* 15: 179-191. 12 fig. 1933.

Includes annotated list, alphabetically arranged by vernacular names, with botanical names and uses.

Local

Avetta, Carlo. Prima—[quinta] contribuzione alla flora dello Scioa. *Nuovo Gior. Bot. Ital.* 21: 303-311, 332-339, 344-352. 1889; 22: 234-239, 242-247. 1890.

Lists of vascular plants, with data, mostly collected by Dr. Vincenzo Ragazzi in vicinity of Let-Marefia. The "Prima contribuzione" follows II-III in paging. The lists were combined and issued with title: Materiali per la flora dello Scioa, in *Annuario R. Ist. Bot. Roma* 6: 44-66. pl. 3-4. 1897.

Braun, Alexander. Beitrag zur kenntniss der abyssinischen culturpflanzen. *Flora* 31: 89-98. 1848.

Annotated list of 36 species.

Chioventa, Emilio. La collezione botanica fatta dall'Ing. Edgard Tasch-djian nell'Impero Etiopico nel 1935-36. *Malpighia* 34: 485-539. 1937.

List of 291 vascular plants collected in area south and west of Lago Tana, with data, vernacular names, and uses.

Chiovenda, Emilio. Etiopia. Osservazioni botaniche, agrarie ed industriali fatte nell' Abissinia settentrionale nell'anno 1909. Monog. e Rap. Colon. Min. Colon. (Italy) no. 24. 132 p. 1912.

Itinerary; annotated lists of cultivated and wild useful plants; index of vernacular names.

———. *Plantae novae vel minus notae e regione aethiopica*. *Annali Bot.* 9: 51-85, 125-152, 315-322. 1911; 10: 383-415. 1912; 13: 371-410. 1915.—*Bull. Soc. Bot. Ital.* 1917: 21-27, 38-39, 53-61, 69-70. 1917.—*Lav. R. Ist. Bot. Catania* no. 1. 32 p. 1928.

Records of 230 species and varieties, in great part new, from Ethiopia, Eritrea, Nubia, and Italian Somaliland.

Engler, Adolf. Ueber die hochgebirgsflora des tropischen Afrika. *Abhandl. K. Akad. Wiss. Berlin Phys.-Math. Cl.* 1891, Abh. II. 461 p. 1892.

Botanical explorations, with bibliographical references included; lists of plants of various elevated areas in Africa, with discussion; systematic list of vascular plants, with references, localities (comparatively detailed, with altitudes and collectors), ecological classification, and general range. Covers in general the region from Ethiopia (Abyssinia) and Somalia to Mozambique, and on the west coast Angola, Kamerun, São Thomé, and Fernando Po.

———. Ueber die vegetationsverhältnisse von Harar und des Gallahochlandes auf grund der expedition von Freiherrn von Erlanger und Hrn. Oscar Neumann. *Sitzungsber. K. Preuss. Akad. Wiss.* 1906 (2): 726-747. 1906.

Includes lists of species from various localities and habitats.

Martelli, Ugolino. *Florula bogosensis*. Enumerazione delle piante dei Bogos raccolte dal Dott. O. Beccari nell'anno 1870 . . . vii, 169 p. 1 pl. 23.5 cm. Firenze, 1886.

List of vascular and cellular plants, with references and localities, and general range.

Paillieux, Auguste, and Bois, Désiré. De quelques plantes alimentaires de l'Abyssinie. *Revue Sci. Nat. Appl. Soc. Natl. Acclim. France* 37: 803-809. 1890. Annotated list of 11 species, with vernacular names.

Pax, Ferdinand. Die von Felix Rosen in Abyssinien gesammelten pflanzen. In Engler, A. *Beiträge zur flora von Afrika* XXX. *Bot. Jahrb. Engler* 39: 602-662. 1907.

List of 350 vascular and cellular plants, with reference and data.

Penzig, Otto. *Piante raccolte in un viaggio botanico fra i Bogos ed i Mensa, nell' Abissinia settentrionale*. *Atti Cong. Bot. Internatl. Genova*, 1892. p. 310-368. 1893.

Author's itinerary, lists of species from various localities; list of 664 vascular plants, with localities.

Raffeneau-Delile, Alire. Énumération des plantes recueillies par MM. Ferret et Galinier. In Ferret, A., and Galinier, J. G. *Voyage en Abyssinie dans les provinces du Tigre, du Samen et de l'Ahmara* . . . v. 3, p. 85-163. pl. 6-15. Paris, 1847.

Annotated list of 144 species (118 phanerogams).

Schweinfurth, Georg. *Abyssinische pflanzenamen*. Eine alphabetische aufzählung von namen einheimischer gewächse in Tigrinja sowie in anderen semitischen und hamitischen sprachen von Abyssinien, unter beifügung der botanischen artbezeichnung. *Abhandl. K. Akad. Wiss. Berlin* 1893, *Phys. Abh. II.* 84 p. 1893.

Sources, etc.; list of vernacular names in native characters, with phonetic rendering and botanical name; alphabetical lists of vernacular and botanical names, with equivalents.

FRENCH EQUATORIAL AFRICA

See also Anglo-Egyptian Sudan (Schweinfurth, Bericht); French West Africa (Chevalier); West Africa.

General

Jumelle, Henri. *Catalogue descriptif des collections botaniques du Musée colonial de Marseille: Afrique équatoriale française*. *Annales Mus. Colon. Marseille* v. 31 (IV, 1), fasc. 1. 80 p. 1923.

Partly annotated list, mainly composed of useful plants, these classified by uses.

Local

Baudon, Alfred. Notes sur la flore et les plantes économiques du Bas-Congo. Annales Mus. Colon. Marseille 17 (II, 7) : 361-410. 5 fig. 1909.

Deforestation, etc.; list of vascular plants collected by author, with localities, vernacular names and notes on uses. The author's studies were made in Moyen-Congo, at Brazzaville and north to the Alima River.

Bertin, A. J. Les bois du Gabon. 2. éd., rev. et corr. 304 p. map. 25.5 cm. Paris, 1929. (1st ed., 1918.) (Mission d'études forestières envoyée dans les colonies françaises par les Ministères de la guerre, de l'armement et des colonies. t. 2.)

Includes (p. 160-304) annotated alphabetical list of vernacular names of trees, with botanical equivalents, and alphabetical index to botanical names treated in Chevalier's "La forêt et les bois du Gabon," with page references.

Chevalier, Auguste. Études sur la flore de l'Afrique centrale française (basins de l'Oubangui et du Chari). Tome 1. Énumération des plantes récoltées. xii, 451 p. port. 25 cm. Paris, 1913. (Mission Chari-Lac Tchad (1902-1904).)

Botanical explorations; list of vascular and cellular plants collected, with data and occasional annotations. (Regions of Moyen- and Haut-Oubangui, Lac Tchad, Bas-, Moyen- and Haut-Chari.)

— La forêt et les bois du Gabon. vii, 468 p. 31 fig., 28 pl. 25 cm. Paris, 1917. (Les végétaux utiles de l'Afrique tropicale française fasc. 9.)

Annotated list of collectors, annotated systematic list of trees, with descriptive notes, vernacular names, uses, and habitat; list of trees classed by uses, etc.

Jardin, Édelestan. Aperçu sur la flore du Gabon avec quelques observations sur les plantes les plus importantes. Bul. Soc. Linn. Normandie IV, 4: 135-203. 1890. (Reprint 71 p., Paris, 1891.)

Geography, botanical explorations; unannotated list of known cellular and vascular plants, with vernacular names; annotated list of vernacular names of undetermined plants; notes upon numerous species.

Louis, Xavier, and Monod, Théodore. Notes botaniques sur la région nord de la subdivision d'Ati (colonie du Tchad) . . . Bul. Agence Écon. Colon. Auton. et Terr. Afr. (France) 27: 593-637. pl. 1934.

Climate, physiography, transcription of native names; annotated list of 198 vascular plants, with vernacular names, local range.

Maire, René. Contribution à l'étude de la flore du Tibesti. (Mission au Tibesti. 2^e vol. Botanique.) Mém. Acad. Sci. Inst. France II, 62 (Mém.): 1-39. 1936.

Botanical explorations, geology, general features of flora, bibliography; list of cellular and vascular plants known from the region (159 native species of vascular plants), with localities, general range, and vernacular names; list of cultivated plants, list of Toubou vernacular names with botanical equivalents.

Payeur-Didelot, J. F. Notes et mémoires sur le Gabon-Congo et la côte occidentale d'Afrique. IX. Coup d'oeil sur les espèces utilisables de la flore gabonaise. Bul. Soc. Géog. de l'Est 19: 177-208, 397-422. 1897.

Sketch of principal woods and useful plants, grouped by uses.

Pellegrin, François. Collections botaniques rapportées par la Mission Tilho de la région Niger-Tchad. Bul. Mus. Hist. Nat. Paris 17: 459-466, 566-571. 1911; 18: 46-50. 1912.

List of vascular plants, with localities; general range given. For notes on useful plants, with a revised list of plants collected, see his Les collections botaniques rapportées par la Mission Tilho avec indications sur les plantes utiles. France. Ministère des colonies. Documents scientifiques de la Mission Tilho (1906-1909). v. 3. p. 459-484. 4 fig. Paris, 1914. (Reprinted.)

— De quelques bois utiles du Gabon. Bul. Soc. Bot. France 84: 639-645. 1938.

Unannotated systematic list, with vernacular names.

— La flore du Mayombe d'après les récoltes de M. Georges Le Testu. Mém. Soc. Linn. Normandie v. 26 (II, 10), fasc. 2. 125 p. 7 fig., pl. 4-11. 1924; n.s., Sect. Bot. v. 1, fasc. 3. 83 p. 13 fig., 6 pl., map. 1928; fasc. 4. 114, viii p. 8 pl. 1938.

Annotated list of vascular plants with references and citation of specimens, with data. (Pt. 1) Dicotyledones Polypetalae; (pt. 2) Gamopetalae except

Rubiaceae; (pt. 3) Rubiaceae, Monocotyledones and Pteridophyta, also "Notes sur la végétation . . ." by G. Le Testu. (Valleys of the Nyanga and Nguonyé (Ngunie) Rivers, Gabon.)

FRENCH GUINEA

See also French West Africa (Perrot); Senegal; West Africa.

General

Pobéguin, Henri. Essai sur la flore de la Guinée française. Produits forestiers, agricoles et industriels. 392 p. 80 pl., map. 25 cm. Paris, 1906.

General features of flora, useful plants, sketch of indigenous plants by families, vernacular names (indexed).

——— Les plantes médicinales de la Guinée. 85 p. 25.5 cm. Paris, 1912. (Bibliothèque d'agriculture coloniale.)

Annotated list, with vernacular names and uses, alphabetically arranged by scientific names; list classified by uses.

Local

Corre, Armand. Esquisse de la flore et de la faune médicales et économiques du Rio-Nunez. Arch. Méd. Navale 26: 14-40. 1876.

Account of wild and cultivated economic and medicinal plants, with vernacular names.

FRENCH SOMALILAND

See also West Africa (Oliver).

The following publication has not been available:

Aubert de la Rüe, Edgar. La Somalie française. Paris, 1938. (Cited from Chevalier, A. Compt. Rend. Acad. Sci. Paris 209: 73-74. 1939.)

General

Chevalier, Auguste. La flore de la Somalie française et la forêt-relique du Mont Goudah. Compt. Rend. Acad. Sci. Paris 209: 73-76. 1939.

Botanical explorations; general features of flora, with mention of some species.

——— La Somalie française. Sa flore et ses productions végétales. Revue Bot. Appl. et Agr. Trop. 19: 663-687 (incl. fig. 2-3, pl. 17-19). 1939.

Geology, climate, botanical explorations, principal woody plants, grasses, notes on useful plants.

Local

Franchet, Adrien. Plantes du voyage au golfe de Tadjourah recueillies par M. L. Faurot. Jour. de Bot. 1: 117-123, 134-136. 1887.

List of 105 spermatophytes, with localities and vernacular names, collected by Dr. Louis Faurot in 1885-86 at Obock and Tadjourah (a few from Ile de Kamarane, Arabia).

FRENCH WEST AFRICA

See also Dahomey (Hua); French Equatorial Africa (Pellegrin, Collections); Mauritania; Sahara; Senegal (Chevalier); West Africa.

The following publication has not been available:

Chevalier, Auguste. Flore vivante de l'Afrique occidentale française. v. 1 (360 p.). Paris, 1938.—Vol. 1 covers Gymnosperms and early dicotyledonous families of French West Africa, Togo, North Cameroons, Ubangi-Shari-Chad, and French Sahara. (Not seen; cited from Fortschr. Bot. 8: 83, 85. 1939.)

General

Jumelle, Henri. Catalogue descriptif des collections botaniques du Musée colonial de Marseille: Afrique occidentale française. Annales Mus. Colon. Marseille v. 25 (III, 5), fasc. 1. 95 p. 1917.

Annotated list of useful plants, classified by uses, with vernacular names.

Perrot, Émile. Sur les productions végétales indigènes ou cultivées de l'Afrique occidentale française (Sahara, Soudan nigérien, Haute-Volta, Guinée).

Trav. Off. Natl. Mat. Prem. Vég. (Paris) Notice 31. viii, 468 p. 23 pl., 3 maps. 1929.

Includes running account of principal wild and cultivated economic plants.

Local

Bonnet, Edmond. Énumération des plantes recueillies par M. R. Chudeau, dans la région de Tombouctou et du Moyen-Niger. Mém. Soc. Bot. France no. 20. 19 p. 1911.

List of 228 vascular plants collected between Araouan and Djenné.

Chevalier, Auguste. La végétation de la région de Tombouctou. Actes Cong. Internatl. Bot. 1, Paris, 1900. p. 248-275 (incl. pl. 10-11). 1900.

Botanical explorations, plant zones, biology of plants, general features of flora, effects of cultivation; annotated list of 52 wild and cultivated woody plants, with localities and vernacular names; bibliography. The area covered is in the western Sudan, between 5° and 10° W. Long., from 17° N. Lat. to the southern edge of the Sahara Desert.

Hagerup, Olaf. Étude des types biologiques de Raunkiaer dans la flore autour Tombouctou. Biol. Meddel. K. Danske Vidensk. Selsk. v. 9, no. 4. 116 p. 5 fig., 5 pl. 1930.

Includes list of 138 phanerogams collected by author, the families arranged alphabetically.

GAMBIA

See also Senegal (Rançon); West Africa.

General

Williams, F. N. Florula gambica, une contribution à la flore de la colonie britannique. Bul. Herb. Boiss. II, 7: 81-96, 193-208, 369-386. 1907.

Geography, botanical explorations, published floras; annotated list of 285 angiosperms.

Local

Dawe, M. T. List of plants collected in the Gambia. 11 p. 21.5 cm. Bathurst, 1922.

Annotated list of vascular and cellular plants collected by author, with localities, vernacular names, and uses.

Kew. Royal Gardens. Botany of Gambia delimitation commission. Bul. Misc. Inform. Kew 1891: 268-275. 1891.

Annotated list of vascular and cellular plants, with vernacular names and uses, collected in 1890-91 by Dr. Brown Lester in vicinity of River Gambia. — See l. c. 1892: 45-48, for an abstract of the report of the French members of the commission.

GOLD COAST

See also West Africa.

General

Burt Davy, Joseph, and Hoyle, A. C., eds. Draft of first descriptive check-list of the Gold Coast. Compiled by members of the Gold Coast Forest Department. . . 152, vii p. 25 cm. Oxford, 1937. (Check-lists of the forest trees and shrubs of the British Empire, no. 3.)

List of woody plants, alphabetically arranged by families, with brief descriptions, vernacular names, citation of exsiccatae. The area covered includes Gold Coast colony, with Ashanti, Northern Territories, and the part of Togoland under British mandate. Processed publication, cover-title only.

Chipp, T. F. The forest officers' handbook of the Gold Coast, Ashanti and the Northern Territories. 148 p. (incl. 20 pl.). 3 diagr., 5 maps. 25.5 cm. London, [1922?].

Includes (p. 55-69) classified list of economic plants, and index of vernacular names of principal forest trees.

Chipp, T. F. A list of the herbaceous plants and undershrubs of the Gold Coast, Ashanti, and the Northern Territories. 55 p. 25 cm. London, 1914.

Annotated list, with localities and collectors' numbers; classified list of useful plants.

Irvine, F. R. Plants of the Gold Coast. lxxix, 521 p. front., 69 fig. (pt. on plates). 20.5 cm. London, 1930.

Native botany and herbalism, native uses of plants, general features of flora, classified lists of useful plants; annotated alphabetical list of about 1,200 phanerogams, with vernacular names in several native languages (indexed), brief descriptions, uses; no systematic list of species.

Local

Cummins, H. A. Botany of Ashanti Expedition. Bul. Misc. Inform. Kew 1898: 65-82. 1898.

Topography, climate, general features of flora, agriculture, economic products; list of vascular plants and bryophytes collected by author between Cape Coast Castle and the Moinsi Hills, chiefly at Assin Yan Kumassi, with general range indicated.

ITALIAN SOMALILAND

See also Eritrea (Chioventa, Vegetali utilizzati nella medicina); Ethiopia (Chioventa, Plantae novae; Engler, Ueber die hochgebirgsflora); Libya (Cortesi); West Africa (Gürke; Oliver).

General

Chioventa, Emilio. Flora Somala. xvi, 436 p. 50 pl. (incl. map). 24.5 cm. Roma, 1929.—Flora Somala II. xvi, 482 p. 247 fig. 25 cm. Modena, 1932. (Lavori eseguiti presso l'Istituto botanico della R. Università di Modena 3.)—Flora Somala III. Raccolte somale dei proff. G. Pollacci, L. Maffei, R. Ciferri e N. Puccioni fatte negli anni 1934 e 1935. Atti Ist. Bot. Giov. Briosi R. Univ. Pavia IV, 7: 117-160. 12 pl. 1936.—Nuovo contributo alla flora della Somalia Italiana. Atti Soc. Nat. e Mat. Modena 66: 1-19. 1935.

Geology, climate, general features and affinities of flora, phytogeography, briefly annotated list of useful native plants, with vernacular names; list of vascular and cellular plants, with references, citation of exsiccatae, vernacular names. The 1929 publication is based on specimens collected by Profs. G. Stefanini and G. Paoli in British and Italian Somaliland and in eastern Ethiopia east of a line drawn from Dolo to Zeila, the other publications on later collections. Not a complete flora.

Local

Chioventa, Emilio. Le collezioni botaniche della Missione Stefanini-Paoli nella Somalia Italiana. 241 p. 6 fig. (incl. map), 24 pl. 28.5 cm. Firenze, 1916. (Risultati scientifici della Missione Stefanini-Paoli . . . v. 1.)

Botanical explorations; annotated list of vascular and cellular plants: appendix containing annotated list of species collected by Mangano, Scassellati, Mazzocchi, and Provenzale; vernacular names (indexed).

———. Contributo alla conoscenza della flora Somala Transjubbense. Piante raccolte dal Dr. Pompeo Gorini nel 1925. Agricolt. Colon. 20: 42-49, 103-109. 1926.

List of spermatophytes, with occasional vernacular names and notes.

Mattei, G. E. Contribuzioni alla flora della Somalia Italiana. Bol. R. Orto Bot. e Giard. Colon. Palermo 7: 85-112, 165-191. 1908.

Two centuries of angiosperms, with references, data, and frequent notes and vernacular names. Specimens collected by Dr. Cesare Macaluso in regions of Goscia, Brava, Merca, and Mogadiscio.

Paoli, Guido. Cenzo sulle piante utili e utilizzabili raccolte dalla Missione. In Stefanini, Giuseppe, and Paoli, G. Ricerche idrogeologiche, botaniche ed entomologiche fatte nella Somalia Italiana meridionale. Relaz. e Monog. Agr.-Colon. Ist. Agr. Colon. Ital. 7: 225-250. 1916.

Annotated lists of useful plants, classified by uses.

IVORY COAST

See also West Africa.

General

Aubréville, André. La flore forestière de la Côte d'Ivoire. 3 v. 351 pl., maps. 28.5 cm. Paris, 1936.

Forest formations, key to families; systematic descriptive flora of woody plants, with vernacular names.

Bégué, Louis. Contribution à l'étude de la végétation forestière de la Haute-Côte d'Ivoire. Pub. Com. Études Hist. et Scient. Afrique Occid. Franç. sér. B, no. 4. 126 p. 19 pl., map. 1937.

Mainly ecological, with numerous short lists of species from different localities; tabular list of principal woody plants with vernacular names.

Bertin, André. Les bois de la Côte d'Ivoire. 176 p. 8 pl., map. 25.5 cm. Paris, 1918. (Mission d'études forestières envoyée dans les colonies françaises par les Ministères de la guerre, de l'armement et des colonies. I.)

Includes lists of scientific and vernacular names, with references to Chevalier's "Les bois de la Côte d'Ivoire."

Chevalier, Auguste. Première étude sur les bois de la Côte d'Ivoire. 314 p. 1 fig., map. 24.5 cm. Paris, 1909. (Les végétaux utiles de l'Afrique tropicale française. fasc. 5.)

Includes (p. 109-274) annotated list of trees, systematically arranged, with vernacular names and frequent descriptions.

KENYA

See also Ethiopia (Engler, Ueber die hochgebirgsflora); Tanganyika (Engler, Die pflanzenwelt Ost-Afrikas; Greenway); West Africa (Oliver).

The following publication has not been available:

Chiovenda, Emilio. Raccolte botaniche (Embryophyta diploidalia). Fatte dal missionare della consolata nel Kenya. [Lavori Ist. Bot. R. Univ. Modena Mem. 6.] 160 p. 1935. (Title cited from Bot. Centralbl. n. f., 31 (v. 173, Lit.): 107. 1938.)

General

Battiscombe, Edward. Trees and shrubs of Kenya Colony. A revision and enlargement [by I. R. Dale] of "A descriptive catalogue of some of the common trees and woody plants of Kenya Colony, by E. Battiscombe." 201 p. 24.5 cm. Nairobi, 1936.

Native tribes, forest types; annotated list of woody plants, with vernacular names, local range, brief descriptions. A few herbaceous species are included.— See also Dale, I. R. Additions and corrections . . . Inst. Paper Imp. Forestry Inst. Oxford 18: 20-23. 1939.

Kenya. Colony and protectorate of Kenya—Forestry department. Preliminary catalogue: trees, shrubs, and herbs. 34 p. 23 cm. Nairobi, 1922.

Systematic list "of the more common plants" with vernacular names.

Local

Fries, T. C. E., and Fries, Robert. Beiträge zur kenntnis der flora des Kenia, Mt. Aberdare und Mt. Elgon. Notizbl. Bot. Gart. Berlin 8: 389-423, 475-504, 547-573, 661-704. [16] fig. 1923-24; 9: 16-36, 173-189, 299-333, 485-522, 1103-1135. fig. 15-17. 1924-27; 10: 69-101, 266-272, 594-621, 897-917. 1927-30; 11: 20-47. 1 fig. 1930.

Annotated list of species collected by the Swedish expeditions of 1920 and 1921-22; the families not in systematic order. Treatments of various families contributed by other authors.

Gregory, J. W. The great rift valley, being the narrative of a journey to Mount Kenya and Lake Baringo . . . xxi, 422 p. 23 fig. (incl. maps), 20 (i. e. 21) pl., 2 maps. 24 cm. London, 1896.

Includes (p. 389-400) list of vascular plants collected, with localities, by E. G. Baker, J. Britten, A. B. Rendle, and W. Carruthers.

LIBERIA

See also West Africa.

General

Cooper, G. P., and Record, S. J. The evergreen forests of Liberia. *Bul. Yale Univ. School Forestry* no. 31. xi, 153 p. 15 pl. on 8, map. 1931.

History, topography, climate, general features of flora; list of 286 woody plants, with vernacular names, brief descriptions, citations of collections, and descriptions of woods; composition of sample plots (as to species, etc.); uses of woods; alphabetical list of vernacular names, with botanical equivalents.

Dinklage, Max. Verzeichnis der flora von Liberia. *Repert. Spec. Nov. Fedde* 41: 235-271. 1937.

Botanical explorations; list of known vascular plants, with citation of exsiccatae but no localities or annotations.

Stapf, Otto. The known plants of Liberia, mainly from materials in the herbarium of the Royal Botanic Gardens, Kew. *In Johnston, Harry. Liberia.* v. 2, p. 570-669. fig. 246-266. London, 1906.

Botanical explorations; list of vascular plants, with brief descriptions, localities, collectors' names, and occasional annotations.

LIBYA

See also Algeria (Maire, *Contributions à l'étude*); Egypt (Issa Bey; Schweinfurth, Ascherson, and Taubert).

The following publications have not been available:

Corti, Roberto. *Prodromo della flora e vegetazione del Fezzân (Resultati scientifici delle Missioni nel Sahara Italiano)*. fasc. 1-3 (250 p.). Firenze, 1938. (Ed. provvisoria.) (Cited from *Nuovo Gior. Bot. Ital.* 45: ccii. 1938.)

Nannizzi, Arturo. *Le piante coltivate ed utili della Libia*. viii, 192 p. 21 cm. Siena, 1913. (Cited from *International catalogue of scientific literature*, 13th annual issue M, Botany. p. 206.)

General

Ascherson, Paul. Die aus dem mittlern Nordafrika, dem gebiete der Rohlfs'schen expedition nach Kufra bekannt gewordenen pflanzen. *In Rohlfs, Gerhard. Kufra. Reise von Tripolis nach der oase Kufra . . .* p. 386-559. Leipzig, 1881.

Botanical explorations, with bibliographical references; annotated lists of vascular and cellular plants known from Tripolitania (437 species), Fezzan (200 species), Kufra (39 species), Audjilagruppe (Aujila: 48 species), and Cyrenaica, including Turkish Marmara (493 species), with localities, vernacular names, and references. Cultivated species are included and numbered in the lists. Under the title "Plantarum Africae septentrionalis mediae hucusque cognitatum conspectus," the list of 775 plants (759 vascular) was reprinted in *Bot. Centralbl.* 8: 278-287. 1881.

[Borzi, Antonino.] *Elenco alfabetico degli autori che si occuparono della Libia sotto l'aspetto botanico ed agrario e della loro pubblicazioni . . .* Monog. e Rap. Colon. Min. Colon. (Italy) no. 9. 32 p. 1912; no. 11. 30 p. 1912.

Partly annotated list, alphabetically arranged by authors; includes also collectors, with brief biographical notes.

Cortesi, Fabrizio. *Piante officinali e della medicina popolare delle Colonie italiane d'Africa e regioni limitrofe. Rassegna Econ. Colon. (Italy)* 24: 71-126. 1936.

Bibliography: systematic list of vascular plants, with vernacular names and brief account of uses, summarizing available information; lists of botanical and vernacular names, without references to pages. Covers Libya, Eritrea, Italian Somaliland, and Ethiopia.

Durand, Ernest, and Barratte, Gustave. *Florae libycae prodromus, ou catalogue raisonné des plantes de Tripolitaine . . . avec la collaboration de P. Ascherson, W. Barbey et R. Muschler . . .* cxxvii, 330 p. 20 pl., map. 35 cm. Genève, 1910.

Physiography, biographical sketches of botanical collectors, synoptical tables showing distribution, phytogeography, list of cultivated plants, bibliography; geology (by S. Meunier); annotated list of 1,156 plants (1,026 vascular), with

references, local and extralimital range. Area covered includes Tripolitaine, the Fezzan, Cyrenaica, and Turkish Marmara.

Trotter, Alessandro. Flora economica della Libia. Statistica illustrata delle piante coltivate e delle spontanee utili delle regione. Seguita da una appendice intorno alle droghe del commercio locale. 375 p. 145 pl., 2 profiles. 19.5 cm. Roma, 1915.

Bibliography, physiography, plant formations, climate, etc.; annotated list of 379 useful plants, with vernacular names and uses; classified lists of useful plants; list of drugs; indices.

Local

Ascherson, Paul. Florula der oasengruppe Kufra nach den sammlungen und beobachtungen von G. Rohlf. Verhandl. Bot. Ver. Prov. Brandenb. 23 (Sitzungsber.): 27-33. 1882.

General features of flora, cultivated plants; annotated list of 39 vascular plants.—See also Lusina, G. Aggiunte alla flora delle oasi di Cufra. Annali Bot. 19: 423-425. 1932.

Béguinot, Augusto, and Vaccari, Antonio. Contributo alla flora della Libia in base a piante raccolte dall'ottobre 1911 al luglio 1912. Monog. e Rap. Colon. Min. Colon. (Italy) no. 16. 72 p. 10 pl. 1912.—Secondo contributo . . . con notizie sulle piante utili osservate. I. c. 1913, no. 7. 40 p. 1913. (Also in Mem. R. Accad. Sci. Lett. ed Arti Modena III, 10 (2): 553-584. 1913.)—Terzo—[quarto] contributo . . . Annali Bot. 12: 87-150. 1913; 13: 9-34. 1914.

(1) Localities, reduction of species described by Viviani in his "Florae libycae specimen," phenology, life forms, phytogeography; annotated list of 402 vascular plants. (2) Annotated list of 172 species; notes on useful plants, with vernacular names. (3) Annotated list of 395 species; table of 596 species mentioned in the three contributions, with indication of locality and occasional notes. (4) Annotated list of 231 species.

Corti, Roberto. Le raccolte botaniche nel sud Cirenaico del Prof. L. di Caporiacco (1933—Spediz. Marchesi) e del Prof. U. Monterin (1934—R. Soc. Geogr. Italiana) e la flora delle Oasi di Cufra e del Gebel Auenat. Nuovo Gior. Bot. Ital. 45: ccc-ccxl. 3 fig. 1938.

Botanical explorations, with footnote references; list of spermatophytes known from Oasis of Kufra and Gebel Auenat, with citation of specimens and general range; phytogeography, etc., with lists of species from numerous localities in the region.

Letourneux, A. H. Note sur un voyage botanique à Tripoli de Barbarie. Bul. Soc. Bot. France 36: 91-99. 1889.

Includes list of about 300 vascular plants and Characeae from the Oasis of Tripoli; list of about 100 cultivated plants, with French and Arabic vernacular names.

Lusina, Giuseppe. La flora. In R. Società geografica italiana. Risultati scientifici della missione alla Oasi di Giarabub (1926-1927). fasc. 4, p. 551-558. Roma, 1931.

Alphabetical list of 65 vascular plants; bibliography, phytogeography. (Tripolitania.)

Maire, René, and Weiller, Marc. Contributions à l'étude de la flore de la Libye. In Maire, R. Contributions à l'étude de la flore de l'Afrique du Nord fasc. 27. Bul. Soc. Hist. Nat. Afrique Nord 30: 255-314. pl. 17. 1939.

Annotated list of cellular and vascular plants, new or rare in Libya, collected by authors in April 1938.

Pampanini, Renato. Piante di Bengasi e del suo territorio raccolte dal Rev. P. D. Vito Zanon della Missione dei PP. Giuseppini al Fuehat. Nuovo Gior. Bot. Ital. n. s., 23: 280-293. 1916; 24: 113-171. 1917.

Botanical explorations, with bibliographical footnotes; special localities; two lists of vascular and cellular plants, with localities, collectors, and vernacular names.—See also Pampanini, R., and Zanon, V. Nuovi contributi alla conoscenza della flora della Cirenaica. I. c. 26: 205-220. 1919.—Nuovi contributi . . . II. Bull. Soc. Bot. Ital. 1922: 6-7. 1922.

Plantae tripolitanae ab auctore anno 1913 lectae et repertorium florum vascularis Tripolitaniae. xiv, 334 p. 1 fig., 9 pl., map. 25 cm. Firenze, 1914. (La missione Franchetti in Tripolitania (Il Gebel), appendice I.)

New records, bibliography; annotated list of vascular plants known from region, with references, localities, and collectors. The appendix (p. 287-328) contains lists of cellular plants, by various authors.

Pampanini, Renato. *Prodromo della flora cirenaica.* xxxviii, 577 p. 2 fig., 6 pl. 24.5 cm. Forlì, 1930.—Aggiunte al "Prodromo della flora cirenaica" dalle mie raccolte in Cirenaica negli anni 1933-34. *Rend. Sem. Fac. Sci. R. Univ. Cagliari* 8: 53-79. 1938.

Botanical explorations, list of botanical collectors with biographical notes, chronological list of collectors, statistics of collectors, etc.; list of 1,617 cellular and vascular plants (1,053 vascular), with references, localities, and collectors; gazetteer, bibliography. The 1938 additions bring the total to 1,197 species of vascular plants, plus 529 varieties and forms.

Trotter, Alessandro. *Nuovi materiali per una flora della Tripolitania.* *Nuovo Gior. Bot. Ital.* n. s. 22: 319-364. 5 fig., pl. 14-18. 1915.

Rare or noteworthy species collected by author in 1914.

— *Osservazioni e notizie intorno alla flora ed alla vegetazione dell'altopiano della Cirenaica.* *Annali R. Scuola Sup. Agr. Portici* II, v. 18, [no. 4]. 23 pp. 1923.

Localities, etc.; list of spermatophytes collected in 1919 by Prof. E. De Cillis.

MAURITANIA

See also French West Africa; West Africa.

Local

Benoist, Raymond. *Plantes récoltées par M. Mond en Mauritanie.* *Bul. Mus. Hist. Nat. Paris* 33: 188-192. 1927.

List of phanerogams, with localities. (Along coast, from St. Louis to Cape Blanco.)

Bonnet, Edmond. *Partie botanique A. Étude systématique.* In *Gravel, A., and Chudeau, R. Mission en Mauritanie occidentale.* *Actes Soc. Linn. Bordeaux* 63: 15-37. pl. 2. 1909.

General features of flora; list of 119 phanerogams, with localities and general range.

— and **Pellegrin, François.** *Énumération des plantes recueillies par M. R. Chudeau dans le nord-ouest de la Mauritanie.* *Compt. Rend. Assoc. Franç. Avanc. Sci.* 43 (2): 463-469. 1915.

List of species previously recorded by the authors, with bibliography; list of additional species, with localities.

Jumelle, Henri. *Plantes de Mauritanie récoltées par le Lieutenant Boëry.* *Annales Mus. Colon. Marseille* v. 36 (IV, 6), no. 1. 43 p. 3 pl. 1928.

Climate, geology, geography, plant formations; list of 104 vascular plants, with localities and extralimital range; based on a collection made in the region of Kiffa in 1924-1926.

Maire, René. *Florule du Zemmour.* *His Contributions à l'étude de la flore du Sahara occidental*, fasc. 6. *Bul. Soc. Hist. Nat. Afrique Nord* 26: 148-162. 1935.

Topography, etc.; annotated list of 69 vascular plants collected by Luthereau in 1934, with vernacular names and uses. Zemmour is on the border between Rio de Oro and northern Mauritania, between 25° and 26° N. Lat.

Zolotarevsky, B., and Murat, M. *Rapport scientifique sur les recherches de la Mission d'études de la biologie des acridiens en Mauritanie (A. O. F.).* *Bul. Soc. Hist. Nat. Afrique Nord* 29: 29-103. pl. 2-8, map. 1938.

Includes sketch of vegetation (plant zones, etc., p. 50-75) and list of plants cited, with vernacular names (p. 96-101), also bibliography. (Western and northern Mauritania.)

MOROCCO (INCLUDING SPANISH MOROCCO)

See also Algeria (Battandier and Trabut, *Flore de l'Algérie*; Cosson; Ducellier and Maire; France, Comité régional d'Algérie; Lapis and Maige; Maire, *Contributions à l'étude de la flore de l'Afrique du nord*; Trabut, *Flore du nord de l'Afrique*); Egypt (Issa Bey).

General

Ball, John. *Spicilegium florae maroccanae.* *Jour. Linn. Soc. Bot.* 16: 281-742. pl. 9-28. 1877-78.

Botanical explorations, phytogeography, list of collectors; annotated list of vascular (and a few cellular) plants known from the region, with collectors, localities, and general range.

Emberger, Louis. Les arbres du Maroc et comment les reconnaître. 317 p. 17 cm. Paris, 1938.

Semipopular work, with keys, description, uses, Arabic and Berber vernacular names, etc.

— and Maire, René. Tableau phytogéographique du Maroc. 1ère partie. Mém. Soc. Sci. Nat. Maroc no. 38. viii, 187 p. 16 fig. (incl. maps, diagrs.), 16 pl. 1934.

Relates mainly to soil and climate; included here for its account of botanical explorations (p. 5-35), with footnote references.

Gattefossé, Jean. Les plantes dans la thérapeutique indigène au Maroc. In Perrot, E., and Gentil, L. Sur les productions végétales du Maroc. Trav. Off. Natl. Mat. Prem. Vég. (Paris) Notice 10: 72-123. 1921.

Bibliography; annotated list, with vernacular names (indexed).

— and Jahandiez, Émile. Essai de bibliographie botanique marocaine. Bul. Soc. Sci. Nat. Maroc 2: 71-86. 1922.

List of 6 titles on vernacular names and 182 (chronologically arranged) on geographical and economic botany.

Jahandiez, Émile, and Maire, René. Catalogue des plantes du Maroc (spermatophytes et ptéridophytes) . . . Avec la collaboration de: J. A. Battandier . . . L. Ducellier . . . L. Emberger . . . P. Font-Quer . . . 3 v. (xl, 913 p.). 25.5 cm. Alger, 1931-34.

Geographical divisions, bibliography of 415 titles; annotated list of vascular plants, with localities and extralimital range. Includes Spanish as well as French Morocco.

Local

Boitel, M. Liste des plantes recueillies autour de Rabat et de Salé (Maroc). Bul. Soc. Sci. Nat. Maroc 1: 41-50. 1921.

Annotated list of phanerogams.

Bonnet, Edmond. Florule de Dar-el-Beïda (Maroc). Naturaliste 11: 194-195, 203. 1889.

Unannotated list of plants collected by Alphonse Mellerio in 1887-88. Dar-el-Beïda is also known as Casablanca.

— Florule d'El Araich (Maroc). Naturaliste 7/9: 403-404. 1887.

List of 155 vascular plants collected in 1886 by Alphonse Mellerio. El Araich, also known as Larache, is on the west coast, 87 km. southwest of Tangiers. (Spanish Morocco.)

Braun-Blanquet, Josias. Zur kenntnis der vegetationsverhältnisse des Grossen Atlas. Vierteljahrsschr. Naturf. Gesell. Zürich 73 (Beibl. 15, Festschrift Hans Schinz): 334-357. fig. 5-7, pl. 12-13. 1923.

Plant formations, etc.; list of species not previously recorded.

— and Maire, René. Études sur la végétation et la flore marocaines. Comptes-rendus des herborisations de la Société Botanique de France, session du Maroc, 1921. Mém. Soc. Sci. Nat. Maroc 8: 5-244. 10 pl., map. 1924.

Plant geography and associations; list of cellular and vascular plants, with localities. (From Mogador to Tanant and Demnat, north to Mazagan and Casablanca, then east through Fez to beyond Tlemsen.)

Caballero, Arturo. Datos botánicos del territorio de Ifni. Trab. Mus. Nac. Cien. Nat. y Jard. Bot. Madrid, Ser. Bot. no. 28. 36 p. 3 pl. 1935; no. 30. 33 p. 7 pl. 1935.

Botanical explorations of author in 1934; annotated list of vascular plants collected. Unfinished; includes Sympetalae, part of Choripetalae. (Spanish possession on west coast, about 29° N Lat.)

— Enumeración de las plantas herborizadas en el Rif. Mem. R. Soc. Españ. Hist. Nat. 8: 241-292. 1914.

Itinerary; list of 395 vascular plants collected by the author in 1912, with localities and occasional annotations. (Spanish Morocco.)

— Excursión botánica a Melilla en 1915. Trab. Mus. Nac. Cien. Nat. Madrid, Ser. Bot. no. 11. 39 p. 2 pl. 1917.

List of vascular plants collected by author, with localities and frequent annotations. (Spanish Morocco.)

Dubard, Marcel, and Cayla, Victor. Liste de quelques plantes utiles du Maroc d'après les documents rapportés par M. de Gironcourt. Agr. Prat. Pays Chauds 9 (1): 95-106. 1909.

Annotated list of 134 species, with Arabic names.

Emberger, Louis. Notes sur la végétation des montagnes du Tadla autour de Ksiba. Bul. Soc. Sci. Nat. Maroc 8: 216-219. 1928.

General features of flora; list of vascular plants collected by author in 1927. (Moyen-Atlas.)

——— Recherches botaniques et phytogéographiques dans le Grand-Atlas oriental (massifs du Ghat et du Mgoun). Mém. Soc. Sci. Nat. Maroc no. 33. 49 p. 2 pl. 1932.

Botanical explorations, general features of flora, plant formations; list of more important vascular plants collected, with data.

——— and Maire, René. Spicilegium rifanum. Mém. Soc. Sci. Nat. Maroc no. 17. 59 p. 7 pl. 1927.

General features of flora; list of cellular and vascular plants collected by authors in 1926 in the eastern "Atlas rifain."

Font y Quer, Pío. Nota sobre la flora subalpina de la cumbre del Lexhab (Marruecos). Mem. Acad. Clen. y Artes Barcelona 22: 335-352. 1931.

Author's expeditions in 1929-30, general features of flora; list of species collected, arranged in ecological groups.

Gandoger, Michel. Florule de Ceuta (Maroc). Bul. Soc. Bot. France 54: 77-81. 1907.

Unannotated list of vascular plants collected by author. (Spanish Morocco.)

Hooker, J. D., and Ball, John. Journal of a tour in Morocco and the Great Atlas. xvi, 489 p. illus., plates, map. 22.5 cm. London, 1878.

Includes chapter by J. D. Hooker "On some of the economic plants of Morocco" (p. 386-404), and by J. Ball "On the mountain flora of two valleys in the Great Atlas of Morocco" (p. 423-446) with table showing distribution.

Humbert, Henri. Végétation de l'Atlas saharien occidental et additions à l'étude botanique de l'Ari Ayachi. Bul. Soc. Hist. Nat. Afrique Nord 19: 204-240. pl. 20-27. 1928.

General features of flora, with lists of principal vascular plants of different localities; list of rarer species, with localities; list of vernacular names.

——— Végétation du Grand Atlas marocain oriental. Exploration botanique de l'Ari Ayachi. Bul. Soc. Hist. Nat. Afrique Nord 15: 147-234. pl. 2-14. 1924.

Geography, geology, plant formations; list of alpine and subalpine species collected by author in Ayachi in 1923, with localities and frequent annotations.

Jahandiez, Émile. Contributions à l'étude de la flore du Maroc. Missions de l'Institut scientifique cherifien en 1921. I. Recherches botaniques dans le Tadla. II. Herborisations dans le Moyen Atlas. III. Recherches botaniques dans le Grand Atlas. IV. Liste méthodique des espèces recueillies. Mém. Soc. Sci. Nat. Maroc [no. 4] (v. 3, no. 1). 123 p. 9 pl. 1923.

Includes (chapter 4) list of vascular and cellular plants collected, with references and localities.

——— and Weiller, Marc. Herborisations dans le sud-ouest marocain et l'Anti-Atlas. Cavanillesia 5: 5-23. 1932.

Itinerary; list of vascular plants collected in 1931 between Mogador and Agadir, in the Province of Sous, and in the Anti-Atlas, with localities.

Joly, Alexandre. Liste des espèces végétales récoltées à Tétuan (Maroc) pendant l'hiver et le printemps de l'année 1905. Bul. Soc. Hist. Nat. Afrique Nord 4: 108-112. 1912.

List of vascular plants collected, arranged by habitats. (Spanish Morocco.)

——— La végétation dans les Beni Znassen (Maroc). Compt. Rend. Assoc. Franç. Avanc. Sci. 39 (2): 86-93. 1911.

General features of flora; list of vascular plants collected by author in 1908.

Lester-Garland, L. V. The botany of the Moroccan Middle Atlas. Jour. Bot. 58: 97-101. 1930.

List of species collected in 1919 by Capt. Hubert Lynes near Azrou at 4,000 to 6,000 feet altitude.

Litardière, René de, and Maire, René. Contributions à l'étude de la flore du Grand Atlas. Mém. Soc. Sci. Nat. Maroc v. 4, no. 1 (i. e. no. 6). 32 p. 6 fig. 1924.—Contributions à l'étude de la flore du Maroc. l. c. no. 26. 56 p. 6 fig. 1930.

List of 205 vascular plants, rare or new in the area, with data and frequent annotations.

Lowe, R. T. A list of plants observed or collected at Mogador and in its immediate environs during a few days' visit to the place in April 1859; with notes and observations. Jour. Linn. Soc. Bot. 5: 26-45. 1861 (1860).

General features of flora; list of 177 vascular plants, with notes on many of the species.

Maire, René. Études sur la végétation et la flore du Grand Atlas et du Moyen Atlas marocains. Mém. Soc. Sci. Nat. Maroc no. 7. 220 p. 16 pl. 1924.

Botanical explorations (with references), physiography, plant associations, phytogeography; list of cellular and vascular plants collected by author, with localities.

— Note sur la flore du Siroua. Bul. Soc. Hist. Nat. Afrique Nord 15: 52-53. 1924.

Brief list of phanerogams collected by Prof. L. Gentile in 1923, with localities. This is the first information on the flora of this mountain mass, which connects the Grand Atlas and the Anti-Atlas.

— La végétation de l'Anti-Atlas oriental et du Djebel Bani. Bul. Soc. Sci. Nat. Maroc 13: 156-164. 1933.

Explorations of author in 1932; general features of flora, with included lists of species.

— La végétation des montagnes des Glaoua. Bul. Soc. Sci. Nat. Maroc 14: 140-146. 1934.

Running account of vegetation, with enumeration of principal species. The Glaoua Mountains are between the central and the eastern Grand Atlas.

Mas y Guindal, Joaquín. Materiales para la flora de Marruecos. Cavanillesia 1: 97-102, 131-133. 1928; 2: 164-166. 1930; 3: 97-99. 1931; 4: 81-87. 1931; 5: 173-180. 1932; 6: 29-32. 1933.

Includes unannotated lists of vascular plants from (v. 1) Yebala, Beni Ider and Ben Karrik, (v. 2) Larache, (v. 3) Castillejos, (v. 4) Rincón de Medik, (v. 5) Akarrat, El Mesin and Dra-el-Asef, (v. 6) Ilguersa, Zinat, and other localities. (Spanish Morocco.)

— Notes sur la flore de Tetouan et de ses environs. Trav. Off. Natl. Mat. Prem. Vég. (Paris) Notice 37. 46 p. 1932. (Reprinted from L'Hygiène sociale no. 77.)

Botanical explorations, geography, general features of flora; list of vascular plants collected by author, with localities; bibliography. (Spanish Morocco.)

— Plantas medicinales del Protectorado Español de Marruecos. Ceuta, 1929.

Annotated list, with range, uses, vernacular names, etc. Not seen; notice from Cavanillesia 3: 70. 1930. (Spanish Morocco.)

Moreau. Contribution à l'étude de la flore de la Chaouia. Arch. Méd. et Pharm. Mil. 62: 625-633. 1913.

General features of vegetation; unannotated list of about 500 vascular plants collected by author, nearly all in vicinity of Casablanca.

Murbeck, Svante. Contributions à la connaissance de la flore du Maroc I-II. Lunds Univ. Årsskr. n.f., avd. 2, v. 18, no. 3. 76 p. 4 fig., 12 pl. 1922; v. 19, no. 1. 68 p. 8 fig., 7 pl. 1923.

List of vascular plants collected by author in 1921, mostly in vicinity of Marrakech and in the Grand Atlas, with data and frequent annotations.

Pau, Carlos. Plantas del norte de Yebala (Marruecos). Mem. R. Soc. Españ. Hist. Nat. 12: 263-401. 1924.

Author's itinerary, bibliography; annotated list of vascular plants. (Spanish Morocco.)

Pitard, C.-J. Contribution à l'étude de la flore du Maroc. 80 p. 25.5 cm. Paris, 1931.

List of new or rare species collected by author in 1911-13, as well as by Lient. Mouret in 1913. Includes sections on mosses, fungi, and lichens by other authors.

Sennen, *frère*, and Mauricio, *frère*. Catálogo de la flora del Rif Oriental y principalmente de las cabilas limítrofes con Melilla. xv, 159 p. map. 25.5 cm. Melilla, [1933?]

Annotated list of vascular plants. (Spanish Morocco.)

Sietti, Henri. Nouvelle contribution à l'histoire naturelle de l'île d'Alborán. Bul. Soc. Sci. Nat. Maroc 13: 10-22. 3 pl. 1933.

Geography, scientific explorations, physiography, geology, etc.; list of lichens and phanerogams (about 10 species); zoology. Alborán is 83 km. south of Point Guardas Viejas (Spain) and 54 km. north of Cape Tres Forcas. (Spanish Morocco.)

Vidal y López, Manuel. Flórula del campamento legionario de Dar Riffien (Cabila de Anyhera). Bol. Soc. Ibérica Cien. Nat. 25: 190-205. 1926.

Unannotated list of phanerogams collected by author and others in 1921. (Spanish Morocco.)

MOZAMBIQUE

See also Angola (Ficalho); Ethiopia (Engler, Ueber die hochgebirgsflora); South Africa; Tanganyika (Engler, Die pflanzenwelt Ost-Afrikas); West Africa (Oliver).

General

Gomes de Almeida, A. Plantas venenosas e medicinas dos indígenas de Moçambique. Bol. Agr. e Pec. Moçambique 1930 (1/2): 9-29. 1930.

Annotated list, with vernacular names; bibliography.

Sim, T. R. Forest flora and forest resources of Portuguese East Africa. vi, 166 p. 100 pl. 25×30.5 cm. Aberdeen, 1909.

Physiography, general features of flora and agriculture, forests, etc.; briefly descriptive flora of woody plants, with vernacular names; timbers, barks, oils, etc.

Local

Maugham, R. C. F. Zambesia: a general description of the valley of the Zambesi River, from its delta to the river Aroangwa, with its history, agriculture, fauna, and ethnography. xiv, 408 p. plates, port., map. 22.5 cm. London, 1910.

Includes (p. 163-195) chapter on "Zambesian flora," with general account of vegetation and of cultivated plants, and unannotated "List of plants, etc., observed in Zambesia" (p. 188-195), the families arranged alphabetically, the botanical names without authorities.

Peters, W. C. H., and others. Naturwissenschaftliche reise nach Mossambique . . . in den jahren 1842 bis 1848 ausgeführt. Botanik. 2 v. 60 (i. e. 61) pl. 51 cm. Berlin, 1862-64.

List of vascular plants, with localities and vernacular names, by various botanists.

Pires de Lima, Américo. Subsídios para o estudo da flora de Moçambique. Espermáfitas do litoral-norte. Brotéria Sér. Bot. 19: 107-143. 1921: 20: 5-11. 1922. —2a série. Bol. Soc. Broteriana II, 2: 126-152. 1924.

Annotated list of 150 vascular plants, with descriptions of most species.

Rendle, A. B., Baker, E. G., Moore, S. Le M., and Gepp, A. A contribution to our knowledge of the flora of Gazaland: being an account of collections made by C. F. M. Swynnerton . . . Jour. Linn. Soc. Bot. 40: 1-245. 7 pl. (incl. map). 1911.

Account of expedition (by Swynnerton); annotated list of vascular and cellular plants collected "chiefly in the high country which forms the boundary between eastern Rhodesia and Portuguese territory."—The notes on useful plants are brought together in Jackson, J. R. Notes on the economic flora of Gazaland. Gard. Chron. III, 51: 283-284, 296-297, 321-322, 332-333. 1912.

Schinz, Hans. Plantae Menyharthianae. Ein beitrag zur kenntnis der flora des unteren Sambesi. Denkschr. Math.-Naturw. Kl. K. Akad. Wiss. Wien 78: 367-445. 1905. (Reprinted, 79 p.)

Biographical sketch and itinerary of Menyharth, notes on cultivated plants, climate (by J. Fényi); list of cellular and vascular plants, with localities, based

on collections by Menyharth made mainly in Boroma, and on another collection by the Haynald Observatory at Zumba, Boroma, and Quelimane.

Schinz, Hans, and Junod, H. A. Zur kenntnis der pflanzenwelt der Delagoa-Bay. Bul. Herb. Boissier 7: 869-892. 1899.—Mém. Herb. Boissier 10: 25-75. 1900.—I. nachtrag. Bul. Herb. Boissier II, 3: 653-662. 1903.

Climate, phenology, general features of flora, bibliography; list of vascular plants, with localities and vernacular names. Forms nos. XI, XII, XV of Schinz's "Beiträge zur kenntnis der Afrikanischen flora" and nos. IX, XI, XX of Mitteilungen aus dem Botanischen Museum der Universität Zürich.

Sousa, A. de Figueiredo Gomes e. Flora de Moçambique. Lista de algumas plantas classificadas do herbário da Direcção de agricultura. Bol. Agr. e Pec. Moçambique 1932: 119-129. 1933.

Annotated list of phanerogams; obviously very far from a complete flora.

NATAL

See also Orange Free State (Markötter); South Africa.

General

Bews, J. W. An introduction to the flora of Natal and Zululand. vi, 248 p. 21 cm. Pietermaritzburg, 1921.

Botanical explorations, bibliography, keys to families and genera, with briefly annotated list of 3,786 spermatophytes; vernacular names (indexed).

Henkel, J. S. The woody plants of Natal and Zululand. A field book of the woody plants . . . xii, 252 p. 2 pl. 22 cm. Durban and Pietermaritzburg, 1934.

Glossary; descriptive flora of woody plants in form of artificial key, with localities; no systematic list; bibliography.

Wood, J. M. A handbook to the flora of Natal. 202 p. 21.5 cm. Durban, 1907.

Keys to families and genera and (pteridophytes only) to species; enumeration of species (3,447 plus 83 varieties) with indication of altitudinal range.

Indigenous food plants. Rpt. Colon. Herb. (Natal) 1900: 12-24. 1901.

Annotated list, the plants classified by uses.—See also his notes on medicinal plants, l. c. 1894: 4-9. 1895. (List alphabetized by vernacular names, with uses.)

Natal plants. 6 v. 600 pl. 28 cm. Durban, 1898-1912.

Plates with descriptive letterpress. M. S. Evans joint author of vol. 1.

Revised list of the flora of Natal. Trans. So. African Phil. Soc. 18: 121-280. 1908.—Supplement containing Apocynaceae, Asclepiadeae, corrections and additions. Trans. Roy. Soc. So. Africa 1: 453-472. 1910.—Addendum . . . l. c. 3: 47-60. 1913.

Plant zones; annotated list of 3,308 species and 83 varieties of vascular plants (in first part).

Local

Bews, J. W. The plant ecology of the Drakensberg Range. Annals Natal Mus. 3: 511-565. pl. 36-39. 1917.

Includes lists of species grouped by habitat.

Bryant, A. T. Zulu medicine and medicine-men. Annals Natal Govt. Mus. 2: 1-103. 1909.

Includes annotated list (p. 77-103) of plants discussed, with vernacular names, uses, etc.

Forbes, H. M. L. An account of the flora of the Malvern district. So. African Jour. Nat. Hist. 2: 195-208. 1920.

Physiography, etc.; running account of habitats, with lists of species (not in systematic order). (A suburb of Durban.)

The flora of Isipingo. So. African Jour. Sci. 18: 348-358. 1922.

Includes running lists of species, classed by habitats. (Near Durban.)

A note on the flora of Salisbury Island (Durban Bay). So. African Jour. Sci. 20: 304-308. pl. 7-8. 1923.

Plant formations; list of species collected, grouped by habit.

Wood, J. M. Flora of Durban and vicinity. List of native plants observed within a radius of five miles from Durban. Rpt. Natal Bot. Gard. 1887 (Rpt. Colon. Herb.): 1-15. 1888.—Additional list . . . l. c. 1888: 19-20. 1889.—Additions . . . Ann. Rpt. Colon. Herb. 1892: 5-8. [1893.]

List of dicotyledons and gymnosperms, with localities. The 1893 paper lists the monocotyledons and vascular cryptogams.

NIGERIA

See also West Africa.

The following publication has not been available:

Anonymous. Vocabulary of Nigerian names of trees, shrubs, and herbs. Lagos, 1936. (Cited from Dalziel, J. M., The useful plants of west tropical Africa, p. xi. 1937.)

General

Ainslie, J. R. A list of plants used in native medicine in Nigeria. Inst. Paper Imp. Forestry Inst. Oxford no. 7. 92, 9, 7 p. 1937.

Annotated list of 366 species, with vernacular names, uses, and methods of use; list of diseases, with references to species used as remedies. (Processed publication.)

Holland, J. H. The useful plants of Nigeria . . . Bul. Misc. Inform. Kew, Add. Ser. 9. 4 pts. (vi, 963 p.) 2 plans, map. 1908-22.

History of colony, physiography, hydrography, climate, list of botanical collectors, botanical gardens, agriculture, etc.; annotated systematic list of useful vascular plants, with references and vernacular names (indexed); bibliography of "books and papers of general interest for west Africa."

Hooker, J. D., and Bentham, George. Flora nigrítica; or, a catalogue of the plants of the river Niger, the island of Fernando Po, and adjacent parts of western tropical Africa; from the collections of Dr. Th. Vogel: to which are added those of Mr. G. Don and other travellers. In Hooker, W. J., ed. Niger flora . . . p. 199-577. pl. 17-50. London, 1849.

Annotated list of 974 phanerogams, with localities and general range.

Local

Dalziel, J. M. A Hausa botanical vocabulary. 119 p. 23 cm. London, 1916. Alphabetical list of vernacular names for plants, foods, etc., with botanical equivalents and notes; index of botanical genera.

Notes on the botanical resources of Yola Province, Northern Nigeria. Bul. Misc. Inform. Kew 1910: 133-142. 1910.

Running account of useful plants, with vernacular names.

Vegetable products of Kontagora Province, Northern Nigeria. Bul. Imp. Inst. 5: 255-266. 1907.

Running account of principal useful wild plants, with vernacular names and uses.

Dawodu, T. B. A provisional list of the indigenous and naturalised flowering plants of the town and island of Lagos and Etube Metta district. 22, ix p. 17.5 cm. Etube Metta, 1902.

Unannotated systematic list, with vernacular names.

Foster, E. W. Notes on Nigerian trees and plants. 69 p. 21.5 cm. Guildford [Eng.], [1914].

Annotated systematic list, with vernacular names and uses; refers mostly to woody plants.

Hutchinson, John. A contribution to the flora of Northern Nigeria. Plants collected on the Bauchi Plateau by Mr. H. V. Lely. Bul. Misc. Inform. Kew 1921: 353-407. 10 fig. 1921.

Phytogeography; annotated list of about 400 vascular plants; general range given.

Kennedy, J. D. Forest flora of Southern Nigeria. 242 p. 25 cm. Lagos, 1936.

Forest types; annotated systematic list, with vernacular names, brief descriptions, uses.

Kew. Royal Gardens. Indigenous plants of Yoruba-land. Bul. Misc. Inform. Kew 1891: 206-219. 1891.

Tabular list of 147 species, with Yoruba names (and meanings), localities, and notes on uses; based on collections by Alvan Millson.

— The timbers of Southern Nigeria. Bul. Misc. Inform. Kew 1908: 189-195. 1908.

Annotated list, mainly by H. N. Thompson.

Lely, H. V. The useful trees of Northern Nigeria. xii, 128 p. (incl. illus., pl.). 27.5 cm. London, 1925.

Descriptive account of 120 trees, alphabetically arranged by botanical names, with vernacular names and uses; figure of leaves and flowers of each species; table showing flowering season of each species.

Rendle, A. B., Baker, E. G., Wernham, H. F., and Moore, S. LeM. Catalogue of the plants collected by Mr. and Mrs. P. A. Talbot in the Oban district, South Nigeria. x, 157 p. 17 pl. 22.5 cm. London, 1913.

Physiography, geology, general features of flora; descriptions of new species; systematic list of species, with collectors' numbers and general range.

NORTHERN RHODESIA

See also Nyasaland (Burkill); West Africa (Oliver).

Local

Fries, R. E. Botanische untersuchungen. viii, 354, xi p. 40 fig., 22 pl., map. 32.5 cm. Stockholm, 1914-16.—Ergänzungsheft. 135 p. 18 fig., 16 pl. 32.5 cm. Stockholm, 1921. (Wissenschaftliche ergebnisse der schwedischen Rhodesia-Kongo-expedition 1911-1912 unter leitung von Eric graf von Rosen. bd. 1.)

Annotated list of vascular plants. The "Ergänzungsheft" includes notes on general features of vegetation, etc., and (p. 71-78) a "Florula bangweolensis" (Lake Bangweolo region, Northern Rhodesia). The expedition traveled from south of Lake Bangweolo along the east side of the long chain of lakes to Gondokoro in the Sudan.

NYASALAND

See also West Africa (Oliver).

General

Burkill, I. H. List of the known plants occurring in British Central Africa, Nyasaland, and the British territory north of the Zambesi. In Johnston, H. H. British Central Africa . . . 2d ed. London, 1898. p. 233-284.—A supplementary list . . . p. 284a-284l.

Botanical explorations; list of vascular and cellular plants, with localities and names of collectors; nearly 2,100 species, of which nearly 1,900 are phanerogams. (Nyasaland and Northern Rhodesia.)

Burt Davy, Joseph, and Hoyle, A. C., eds. Nyasaland Protectorate. Compiled by the Imperial Forestry Institute in collaboration with the Forest Department of Nyasaland. 111 p. 22 cm. Oxford, 1936. (Check-lists of the forest trees and shrubs of the British Empire. no. 2)

Forest types; list of woody plants, with vernacular names (indexed), the families arranged alphabetically; list of exotics.

Local

Britten, James, and others. The plants of Milanji, Nyasa-land, collected by Mr. Alexander Whyte . . . Trans. Linn. Soc. Bot. II, 4: 1-67. pl. 1-10, map. 1894.

Physiography, etc. (by W. Carruthers); list of vascular and cellular plants, with references, localities, and extralimital range.

ORANGE FREE STATE

See also South Africa.

Local

Markötter, E. I. 'n Plantegeografiese skets en die flora van Witzieshoek, O. V. S.; Oliviershoekpas, Natal; en Koolhoek, O. V. S. *Annals Univ. Stellenbosch* v. 8, sect. A, no. 1. 50 p. 1 fig. (map). 1930.

Topography, climate, plant formations, ecology; annotated list of vascular plants, with citation of exsiccatae.

PORTUGUESE GUINEA

See also Angola (Ficalho); West Africa.

General

Sousa, A. de Figueiredo Gomes e. Notas sôbre a flora da Guiné portuguesa. *Bol. Agência Geral Colôn. Portugal* 5 (44): 99-139. illus. 1929.

Physiography, soils, climate, general features of flora; annotated list of useful wild and cultivated plants, with vernacular names.

RIO DE ORO

General

Almonte, Enrique d'. Ensayo de una breve descripción del Sahara español. *Bol. R. Soc. Geog. (Madrid)* 56: 129-347. plates, 3 maps. 1914.

Sketch of geography, hydrography, geology, climate, fauna, bibliography, etc.; includes (p. 216-235) a chapter "Indicaciones relativas á la flora," with list of known vascular plants, with localities and vernacular names, and remarks on general features of vegetation. Covers the colony of Río de Oro (proper), the protectorate, and occupied territory, reaching from 20° 46' to 29° N. Lat.

RUANDA AND URUNDI

See Belgian Congo (Burt; Cotton; Staner); Northern Rhodesia (Fries); Tanganyika (Meyer; Mildbraed); West Africa (Oliver).

SAHARA

See also French West Africa.

Bruno, Alessandro. I prodotti utili della vegetazione sahariana. *Bol. Soc. Africana Italia* 25: 265-280. tab. 1906.

Annotated list of 57 useful plants, with vernacular names (on chart).

Chevalier, Auguste. Les productions végétales du Sahara et de ses confins nord et sud . . . *Revue Bot. Appl. et Agr. Trop.* 12: 669-924. 1932.

Includes (p. 825-898) "Liste des plantes cultivées ou à cultiver ou spontanées et utilisées par les indigènes dans le Sahara et sur ses confins nord et sud," an annotated systematic list, with vernacular names, localities, and uses, preceded by chapters on general features of flora and on edible plants, woods, and various other useful plants, with bibliographies.

Diels, Ludwig. Beiträge zur flora der Zentral-Sahara und ihrer pflanzengeographie. Nach der sammelausbeute des freiherrn Hans Gyer von Schwappenburg. *Bot. Jahrb. Engler* 54 (Beibl. 120): 51-155. pl. 1 (map). 1917.

Itinerary, annotated bibliography; annotated list of Characeae and vascular plants; plant geography, climate, general features of vegetation, elements of flora. The list itself incorporated into Maire, *Études sur la flore et la végétation du Sahara central* (1933). Covers in general the area from 2° to 12° E. Long., 21° to 29° N. Lat.

Dürkop, Erich. Die nutzpflanzen der Sahara. *Beih. Tropenpfl.* 4: 157-204. 1903. (Preprinted as Inaug.-diss., with title: Die wirtschafts- und handelsgeographischen provinzen der Sahara, begründet durch nützliche pflanzen. 56 p. 1902.)

Geography, climate, general features of vegetation; running account of principal and minor useful plants, geographically grouped, with footnote references.

Gram, Karl (i. e. Kai). *Karplantevegetationen i Moydir (Emmidir) i Central Sahara*. 168 p. 45 fig. København, 1935. (Dissertation.)

Mainly ecological; includes annotated list of 180 vascular plants collected by author in 1922-23. (Not seen; cited from Bot. Centralbl. n. f., 28 (v. 170): 376. 1937.) (Near Ahaggar, about 25° 20' N. Lat., 4° 20' E. Long.)

Maire, René. [1.]-7. contribution à l'étude de la flore du Sahara occidental. *Bul. Soc. Hist. Nat. Afrique Nord* 13: 24-28. 1922; 14: 159-160. 1923; 16: 87-97. 1925; 18: 9-11. 1927; 25: 10-20. 1934; 26: 148-162. 1935; 27: 344-354. 1936.

Lists of plants from various localities, with data and vernacular names. [No. 1] has title: *Plantes récoltées par l'expédition Augiéras . . .* (1920-1921); No. 6 (1935) is a "Florule du Zemmour" (see under Mauritania).

— Études sur la flore et la végétation du Sahara central. I-II. *Mém. Soc. Hist. Nat. Afrique Nord* no. 3. 272 p. 22 fig., 36 pl., 2 col. pl., 2 maps. 1933. (Mission du Hoggar II.)

Botanical explorations, bibliography; annotated list of cellular and vascular plants known from the central Sahara, with localities, general range, notes on uses; lists of botanical names, with Tamachek (Touareg) equivalents, and of Tamachek vernacular names. Covers in general the area between 21° and 29° N. Lat. and 2° and 12° E. Long., with the southern boundary of Algeria as its southern limit.

Monod, Théodore. *Mission saharienne Augiéras-Draper, 1927-1928. Phanérogames*. (Liste des récoltes classées par ordre géographique.) *Bul. Mus. Hist. Nat. Paris* II, 4: 756-774. 1 fig. 1932.

Phytogeographical regions, climate, etc.; unannotated lists of phanerogams collected by author at 15 different localities between Atakor-n-Ahaggar and the Niger River.

SÃO THOMÉ AND PRINCIPE

See also Angola (Ficalho); Cameroons (Hooker); Ethiopia (Engler, Ueber die hochgebirgsflora); West Africa.

General

Cardoso, João, jr. *Plantas medicinaes das ilhas de S. Thomé e Príncipe. In his Subsídios para a materia medica e therapeutica das possessoes ultramarinas portuguezas*. v. 1, p. 141-142. Lisboa, 1902.

Unannotated alphabetical list of medicinal plants.

Local

Henriques, J. A. *Contribuição para o estudo da flora d'Africa. Catalogo da flora de ilha de S. Thomé*. *Bol. Soc. Broteriana* 4: 129-221. illus., 8 pl. 1886; 5: 196-220. 6 pl. 1887; 10: 97-165. 1892.

Botanical explorations, physiography, general features of flora, cultivated plants; list of vascular and cellular plants, with localities, collectors, and general range. Musci by C. Müller, Hepaticae by F. Stephani, Fungi by G. Winter, Lichenes by Nylander. Subtitle of first part *Flora de S. Thomé*.—See also his *A ilha de S. Thomé sob o ponto de vista historico-natural e agricola*. l. c. 27: 1-197. 83 fig. (incl. plates, maps), map. 1917. (List of cellular and vascular plants, p. 165-197, based on his earlier list.)

Moller, A. F. *Einige medizinische pflanzen von S. Thomé (Westafrika)*. *Ber. Deut. Pharm. Gesell.* 7: 352-355, 491-501. 1897.

Annotated list, with vernacular names and uses.

SENEGAL

See also French Guiana (Lanessan, *Les plantes utiles*, p. 335-350, 792-841); Gambia (Kew, Royal Gardens); West Africa.

General

Chevalier, Auguste. *Nos connaissances actuelles sur la géographie botanique et la flore économique du Sénégal et du Soudan*. In Lasnet, Alexandre, and others. *Une mission au Sénégal . . .* p. 197-267. 7 fig. Paris, 1900. (Exposition universelle de 1900—Les colonies françaises.) (Reprinted.)

Plant zones; running account of native and cultivated useful plants; bibliography.

Guillemin, J. A., Perrottet, Samuel, and Richard, Achille. *Florae Senegambiae tentamen, seu historia plantarum in diversis Senegambiae regionibus a peregrinatoribus Perrottet et Leprieur detectarum.* xi, 316 p. 72 pl. 25.5 cm. Parisii, 1830-33.

Botanical explorations; annotated flora with vernacular names and diagnoses or descriptions. Only one volume was issued (Ranunculaceae—Myrtaceae). Covers Senegal and French Guinea.

Sambuc, Camille. *Contribution à l'étude de la flore et de la matière médicale de la Sénégambie.* 102 p. 26.5 cm. Montpellier, 1887. (Thèse.)

Botanical explorations, geography, languages, phytogeography; annotated list of medicinal plants, arranged by uses.

Sébire, Albert. *Les plantes utiles du Sénégal: plantes indigènes, plantes exotiques.* lxx, 341 p. 38 fig., 6 pl. 18.5 cm. Paris, [1899].

Agriculture; lists of vernacular names, classified by uses; running descriptive account of cultivated and wild useful plants, with vernacular names.

Vallot, Joseph. *Études sur la flore du Sénégal.* Bul. Soc. Bot. France 29: 168-239. map. 1882. (Reprinted, 80 p. Paris, 1883.)

Annotated alphabetical list of 114 collectors, with bibliographies; general bibliography; list of works cited; gazetteer; list of explorers who died in tropical Africa; annotated list of vascular plants, with localities, exsiccatae, general range. Unfinished; includes only Ranunculaceae—Capparidaceae.

Local

Noury, M. F. *Contribution à l'étude de la flore de la Sénégambie et du nord du Foutah-Djallon.* Arch. Méd. Navale 51: 199-210, 305-317, 366-384. 1889.

Author's itinerary, botanical explorations, soil, etc.; annotated list of plants collected, with frequent descriptions and notes on uses. The area referred to lies between Gambia and Rio-Núñez.

Rançon, André. *La flore utile du bassin de la Gambie.* Bul. Soc. Géog. Com. Bordeaux II, 18: 324-338, 353-382, 385-410, 417-442, 467-477, 496-508, 518-541, 545-558. map. 1895. (Reprinted with title: *Étude botanique exotique. La flore utile* . . . 160 p. 1895.)

Running account of wild and cultivated useful plants, grouped by uses, with vernacular names.

SIERRA LEONE

See also West Africa.

The following publication has not been available:

Lane-Poole, C. E. *The trees, shrubs, herbs, and climbers of Sierra Leone.* 159 p. Freetown, 1916. (Cited from G. P. Ahern and H. K. Newton, *A bibliography on woods of the world.* Scient. Contrib. Trop. Plant Res. Found., 10: 59. 1928.)

General

Elliot, G. F. S. *Sierra Leone. Reports on botany and geology.* Colon. Rep. Misc. Gt. Brit. no. 3. 78 p. 1893.

Geology, climate, etc.; annotated classified list of useful plants, with vernacular names (indexed).

Sabine, Joseph. *Some account of the edible fruits of Sierra Leone . . . from the journal and personal communication of Mr. George Don, A. L. S.* Trans. Hort. Soc. London 5: 439-466. col. pl. 1824.

Annotated list based on George Don's expedition in 1822; list of fruits recorded by Afzelius; list of cultivated fruits.

SOUTH AFRICA

South Africa, a term used in various senses, is here taken as the area south of the middle course of the Zambesi River, including South-West Africa, Bechuanaland Protectorate, Southern Rhodesia, southern Mozambique, and the countries south of them. The floras listed under this head are only those referring to all or most of this region, those relating to definite smaller areas being cited under their respective geographical subdivisions.

Goester, L. E. *De geneesmiddelen van Groot Nederland. Overzicht der in Zuid-Afrika meest gebruikte plantaardige geneesmiddelen.* Phar. Weekbl.

Nederland. 51: 1019-1024, 1035-1041, 1107-1117, 1129-1140, 1200-1204, 1240-1249, 1265-1275. 1914.

Annotated systematic list, with vernacular names and uses, of principal medicinal plants of Cape of Good Hope, Natal, Orange Free State, and Transvaal.

Harvey, W. H., Sonder, W., and others. *Flora capensis*: being a systematic description of the plants of Cape Colony, Caffraria and Port Natal (and neighboring territories). 7 v. 23 cm. Dublin, 1859-65; London, 1896-1933.

Descriptive flora of spermatophytes, with keys, references, and citation of specimens. Vol. 1-3 (1859-65) by Harvey and Sonder; the remaining volumes (1896-1925) were edited by Dyer, and the limits were extended northward to the Tropic of Capricorn. The botanical regions adopted in the later volumes are discussed in the preface to v. 6. Vol. 5, sect. 2, supplement (1933), by A. W. Hill, contains the gymnosperms. The history of the work is discussed by Dyer in Kew Bull. 1925: 289-293.

Macowan, Peter, and Bolus, Harry. Catalogue of printed books and papers relating to South Africa. Pt. 1. Botany. Trans. So. African Phil. Soc. 2: 111-187. 1882.

List of 551 papers and books, arranged alphabetically by authors, with authors' dates and bibliographical annotations.—See also Schönland, S. South African botanical literature. Mem. Bot. Survey So. Africa 4: 69-85. 1922. (Classified bibliography, mainly supplementary to Macowan and Bolus' "Catalogue.")

Marloth, Rudolf. Dictionary of the common names of plants with list of foreign plants cultivated in the open. 175 p. 22 cm. Cape Town, 1917.

Annotated alphabetical list of about 2,000 vernacular names (Dutch, English, and Kafir) with botanical equivalents; systematic list of scientific names, with vernacular equivalents; list of mixed vernacular and scientific names of foreign plants cultivated in the open in South Africa; bibliography. "Supplement" to his *Flora of South Africa*.

— The flora of South Africa, with synoptical tables of the genera of the higher plants. 4 v. in 6. illus., plates (pt. col.). 29.5 cm. Capetown, 1913-32.

Semipopular account, with excellent illustrations, keys to families and genera, and mention of principal species; not a systematic flora. Contains much information on biology and adaptations of plants. The northern boundary of the area covered follows the Tropic of Capricorn from Walvisch Bay to the Limpopo River, then the latter to its mouth.

Phillips, E. P. A brief historical sketch of the development of botanical science in South Africa and the contribution of South Africa to botany. So. African Jour. Sci. 27: 39-80. 1930.

Sketch of botanical explorations and publications, with much biographical information.

— Economic plants of South Africa. Off. Year Book Union So. Africa 8 (1910-25): 47-53. map. 1927.

Annotated systematic list of 64 phanerogams, with vernacular names and uses.

— The genera of South African flowering plants. 702 p. 25 cm. Cape Town, 1926. (Botanical survey of South Africa. Memoir no. 10.)

Synopsis of classification; systematic descriptions of families and genera, with keys and brief account of geographical distribution, with especial reference to South Africa. Covers the Union of South Africa and South-West Africa. Replaces Harvey, W. H. The genera of South African plants. ed. 2. 1868.—For additions see his Newly described and newly recorded genera . . . So. African Jour. Sci. 30: 220-221. 1933.

Smith, Andrew. A contribution to South African materia medica, chiefly from plants in use among the natives. 3d ed., largely extended. viii, 238 p. 22 cm. Cape Town, [etc., 1895]. (1st ed., 18—; 2d ed., 1888.)

Annotated lists, classified by uses, etc., with vernacular names.

Steyn, D. G. The toxicology of plants in South Africa; together with a consideration of poisonous foodstuffs and fungi. xii, 631 p. 135 fig. 24 cm. [Johannesburg,] 1934. (South African agricultural series, vol. 13.)

General account of poisonous plants; annotated systematic list of poisonous plants, with vernacular names, range, toxicity, etc.; extensive bibliography.

Watt, J. M., and Breyer-Brandwijk, M. G. The medicinal and poisonous plants of southern Africa, being an account of their medicinal uses, chemical

composition, pharmacological effects, and toxicology in man and animal. xx, 314 p. plates (pt. col.). 26 cm. Edinburgh, 1932.

Annotated systematic list of vascular and cellular plants, with vernacular names, uses, references, etc.; bibliography.

SOUTHERN RHODESIA

See also Bechuanaland Protectorate (Bremekamp and Obermejer); South Africa; West Africa (Oliver).

General

Eyles, Frederick. A record of plants collected in Southern Rhodesia. Trans. Roy. Soc. So. Africa 5: 273-564. 1916.

List of 2,397 species of cellular and vascular plants, with references, localities, and collectors.

Local

Gibbs, L. S. A contribution to the botany of Southern Rhodesia. Jour. Linn. Soc. Bot. 37: 425-494. pl. 17-20. 1906.

General features of flora; annotated list of vascular and cellular plants collected by the author in Matopo Hills and at Victoria Falls, Zambesi, Southern Rhodesia, in Aug.-Oct. 1905; bibliography.

Gilliland, H. B. Notes on the flora of Rhodesian Manicaland. I. Jour. So. African Bot. 4: 143-156. pl. 41-45. 1938.

Annotated list of bryophytes and vascular plants not previously recorded from Manicaland, partly in collaboration with other authors; bibliography. Pt. 1 covers bryophytes, pteridophytes, and gymnosperms.

Monro, C. F. H. Some indigenous trees of Southern Rhodesia. Proc. Rhodesia Scient. Assoc. v. 8, pt. 2. 123 p. 1908.

Orthography of vernacular names; alphabetical list of vernacular names, with botanical equivalents and authorities; descriptive list of trees referred to.

Norlindh, Tycho, and Weimarck, Henning. Beiträge zur kenntnis der flora von Süd-Rhodesia. Bot. Notiser 1932: 1-21. 6 fig. (incl. map). 1932; 1934: 64-110. 10 fig. 1934; 1935: 357-408. 21 fig. 1935; 1936: 1-50. 13 fig. 1936; 1937: 161-201, 419-446. 12 fig. 1937.

Itinerary, general features of flora; list of plants collected by the Swedish expedition to South Africa and Southern Rhodesia in 1930-31, with data, the families not in systematic order.

Steedman, E. C. A description of some trees, shrubs and lianes of Southern Rhodesia. xix, 191 p. (incl. 85 pl.). 7 pl. 25 cm. Bulawayo, 1933.

General features of flora, systematic list of species included; descriptive partial flora, with vernacular names and occasional notes on uses.

SOUTH-WEST AFRICA

See also Cape of Good Hope (Pearson); South Africa; West Africa (Oliver).

General

Dinter, Kurt. Index der aus Deutsch-Südwestafrika bis zum jahre 1917 bekannt gewordenen pflanzenarten. Repert. Spec. Nov. Fedde 15: 77-92, 340-355, 426-433. 1917-19; 16: 167-174, 239-247, 335-344. 1919-20; 17: 185-192, 258-265, 303-311. 1921; 18: 13-16, 248-256, 423-444. 1922; 19: 93-96, 187-192, 235-240, 315-320. 1923-24; 20: 314-316. 1924; 22: 108-112, 375-383. 1925-26; 23: 130-137, 227-236, 363-371. 1926-27; 24: 13-16, 302-304, 366-368. 1927-28; 25: 49-51, 209-210. 1928.

Alphabetical list of 2,708 vascular and cellular plants, with references to original description and localities and collectors' numbers.

———. Die vegetabilische veldkost Deutsch-Südwest-Afrikas. 47 p. 13 pl. 23.5 cm. Okahandja, 1912.

Annotated, briefly descriptive list of edible plants grouped by parts used, with vernacular names. The South African word "veldkost" covers all edible wild plants and animal products.

Schinz, Hans. Die pflanzenwelt Deutsch-Südwest-Afrikas. *Bul. Herb. Boissier* 4 (App. 3): 1-57. 1896; 5 (App. 3): 59-101. tab. 1. 1897; *Mem. Herb. Boissier* 1: 103-131. 1900.

List of cellular and vascular plants, with citation of exsiccatae and localities and extralimital range; intended to include all known up to August 30, 1896. Incomplete; reached *Crotalaria* (Engler-Prantl system).

Local

Bolus, Frank, Bolus, Louisa and Glover, Ruth. Flowering plants and ferns collected on the Great Karasberg by the Percy Sladen Memorial Expedition, 1912-1913. *Annals Bolus Herb.* 1: 9-19, 72-75, 97-114. pl. 1-6, 8, 13-14. 1914-15.

List with localities and collecting numbers. Preceded (p. 1-8) by an account of the topography, climate, etc., by H. H. W. Pearson. (In Great Namaqualand.)

Range, Paul. Die flora des Namalandes I-XIV. *Repert. Spec. Nov. Fedde* 30: 129-158. pl. 129 (map). 1932; 33: 1-22. 1933; 35: 35-42. 1934; 36: 1-19, 97-109, 241-264. 1934; 38: 122-130, 256-280. 1935; 39: 55-66, 283-287. 1935-36; 43: 251-256, 262-271. 1938; 44: 101-114. 1938; 45: 320. pl. 241-244 (maps). 1938.

Botanical explorations, geology, climate, plant regions, general features of flora, bibliography; systematic list of vascular plants (including cultivated species), with references, citation of exsiccatae, extralimital range, occasional vernacular names and uses; short conspectus of cellular plants, fossil flora, statistics (1,646 species), alphabetical list of collectors with brief biographical information, list of localities. Page 320 (vol. 45) is table of contents.

Seiner, Franz. Ergebnisse einer bereisung der Omaheke in den jahren 1910-1912. *Mitt. Deut. Schutzgeb. Wiss. Beih. Deut. Kolonialbl.* 26: 225-316. 5 pl., 4 maps. 1913.

Includes (p. 238-255) a considerable list of vascular plants, partly annotated, grouped into 73 plant formations. The area covered is northeastern South-West Africa.

SPANISH GUINEA

See also Cameroons (Hooker; Mildbraed, Botanik); Ethiopia (Engler, Ueber die hochgebirgsflora); West Africa.

Local

Hooker, J. D. On the vegetation of Clarence Peak, Fernando Po; with descriptions of the plants collected by Mr. Gustav Mann on the higher parts of that mountain. *Jour. Linn. Soc. Bot.* 6: 1-23. 1862 (1861).

Phytogeography; list of vascular plants, with localities and general range.

Mildbraed, Johannes. Neue arten von der Insel Annobon. *Notizbl. Bot. Gart. Berlin* 13: 697-705. 1937.

Descriptions and reductions to synonymy of the undescribed new species given in his list of the plants of Annobon in *Wissenschaftliche ergebnisse der zweiten deutschen Zentral-Afrika-expedition 1910-11*, bd. 2, Botanik. 1922. p. 157-164 (see under Cameroons).

SWAZILAND

See South Africa; Transvaal (Burt Davy and Pott, A first check-list; Burt Davy, A manual).

TANGANYIKA

See also Anglo-Egyptian Sudan (Grant); Ethiopia (Engler, Ueber die hochgebirgsflora); Northern Rhodesia (Fries); West Africa (Gürke; Oliver); Zanzibar (Sacleux).

General

Bally, P. R. O. Heil- und giftpflanzen der eingeborenen von Tanganyika. *Beih. Repert. Spec. Nov. Fedde* v. 102. 87 p. 19 pl. 1938.

General account of native medicine, arrow poisons, fish and insect poisons, drinks and stimulants; annotated systematic list of 345 vascular plants, with native names and uses; list classified by uses; indices.

Bally, P. R. O. Native medicinal and poisonous plants of East Africa. *Bul. Misc. Inform. Kew* 1937: 10-26. 1937.

Briefly annotated list of vascular plants, with vernacular names and uses. Refers principally to Tanganyika Territory.

Braun, Karl. Gewürze und aromatika der völker des früheren Deutsch-Ostafrika. *Heil- u. Gewürz-Pflanz.* 11: 55-86, 113-141. 1928.

Annotated list of 80 species, with vernacular names (indexed) and uses, alphabetically arranged by scientific names; bibliography.

—— Pflanzan aus Deutsch-Ostafrika, ihre namen und verwendung bei den eingeborenen. *Arch. Pharm.* 262: 368-381. 1924; 263: 123-139. 1925; 265: 45-61. 1927.

Annotated list of 91 species, alphabetically arranged, with vernacular names, notes on uses and references.

Busse, Walter. Ueber heil- und nutzpflanzen Deutsch-Ostafrikas. *Ber. Deut. Pharm. Gesell.* 14: 187-207. 2 pl. 1904.

Discussion of "hunger-foods," *Strychnos*, etc.; running account of medicinal and useful plants.

Engler, Adolf, ed. Die pflanzenwelt Ost-Afrikas und der nachbargebiete. *Theil B. Die nutzpflanzen Ost-Afrikas.* 535 p. 24 fig. 27 cm. Berlin, 1895.

Chapters on palms, grasses, bananas, edible and other useful plants, medicinal and ornamental plants, by various authors.

—— and others. Die pflanzenwelt Ost-Afrikas und der nachbargebiete. *Theil C. Verzeichniss der bis jetzt aus Ost-Afrika bekannt gewordenen pflanzen.* 433 p. 45 pl. 27.5 cm. Berlin, 1895.

Geographical regions (39), with mention of most important collectors; systematic list of cellular and vascular plants by various authors, with areal occurrence, extralimital range, and occasional annotations. Covers primarily Tanganyika (German East Africa), southern British East Africa, and Portuguese East Africa south to the Zambesi River, but indicates distribution of included species in other areas of Africa.

Greenway, P. J. A Swahili dictionary of plant names. xvi, 112 p. 16 cm. Dar es Salaam, 1937.

Bibliography; briefly annotated alphabetical list of vernacular names, with botanical equivalents (not indexed) and uses. "The Swahili language is spoken by the mixed races of Arabs, negroes and others who inhabit the east coast of Africa."

Peter, Albert. Flora von Deutsch-Ostafrika. Zusammenstellung der in Deutsch-Ostafrika beobachteten farnartigen gewächse und blütenpflanzen mit literatur-nachweisen, angabe der verbreitung auf der erde und bestimmungstabellen. *Beih. Repert. Spec. Nov. Fedde v.* 40, pt. 1-2, lfg. 3. plates. 1929-38.

Author's itineraries; annotated list of vascular plants, with keys, references, citation of localities, general range, occasional vernacular names and uses. Not yet completed. *Lieferung 3* (pt. 2) reaches Basella; each part accompanied by separately paged Anhang containing full descriptions of the new species.

Sadebeck, Richard. Die tropischen nutzpflanzen Ostafrikas, ihre anzucht und ihre ev. plantagenbetrieb. *Jahrb. Hamburg. Wiss. Anst.* 9: 203-228. 1891.

Account of the most important species.

Local

Engler, Adolf, and others. Die von W. Goetze am Rukwa-see und Nyassa-see sowie in den zwischen beiden seen gelegenen gebirgsländern, insbesondere dem Kinga-gebirge gesammelten pflanzen, nebst einigen nachträgen (durch * bezeichnet) zu Bericht III. Berichte über die botanischen ergebnisse der Nyassa-see- und Kinga-gebirgs-expedition . . . IV. *In his Beiträge zur flora von Afrika XXII. Bot. Jahrb. Engler* 30: 239-445. 7 fig., pl. 4-22. 1901.

List of cellular and vascular plants, with data and occasional vernacular names.

—— and others. Die von W. Goetze und Dr. Stuhlmann im Ulugurugebirge, sowie die von W. Goetze in der Kisaki- und Khutu-steppe und in Uhehe gesammelten pflanzen. Berichte über die botanischen ergebnisse der Nyassa-see- und Kinga-gebirgs-expedition der Hermann- und Elise-geb. Heckmann-Wentzelstiftung. III. *In his Beiträge zur flora von Afrika XX. Bot. Jahrb. Engler* 28: 332-510. pl. 5-10. 1900.

Botanical explorations; list of cellular and vascular plants, with localities, vernacular names, and uses.

Engler, Adolf. Ueber die flora des gebirgslandes von Usambara, auf grund der von Herrn Carl Holst daselbst gemachten sammlungen. In his Beiträge zur flora von Afrika V. Bot. Jahrb. Engler 17: 156-168. 1893.

Plant formations, with lists of species; no general list.

Heering, Wilhelm. Dr. E. Obst's botanische sammlung aus dem abflusslosen rumpfschollenland des nordöstlichen Deutsch-Ostafrika. Mitt. Geog. Gesell. Hamburg 29: 205-216. 1915.

Annotated list of cellular and vascular plants, collected from Wakindigaland and on the summit of Mount Ufomi, both regions previously unknown botanically. Most of the specimens collected were lost.

Jaeger, Fritz. Das hochland der Riesenkrater und die umliegenden hochländer Deutsch-Ostafrikas. Ergebnisse einer amtlichen forschungsreise ins abflusslose gebiet des nördlichen Deutsch-Ostafrika 1906-07. Mitt. Deut. Schutzgeb. Wiss. Beih. Deut. Kolonialbl. Ergänzungsh. no. 4. iv, 133 p. 8 fig. 3 pl., 3 maps. 1911.

Includes (p. 88-94) unannotated list of 522 vascular plants collected by the expedition, grouped by localities and plant formations. The identifications were made at the Berlin Herbarium.

Merker, Moritz. Pflanzen der Massai-steppe im süden, westen und südwesten des Kilimandscharo und Meru, welche bei den Massais theils als medizinpflanzen, theils als anderweitig nützliche oder schädliche pflanzen beachtung finden. Notizbl. K. Bot. Gart. Berlin 3: 194-197. 1902.

Unannotated list of 85 vascular plants with Massai and botanical names.

Meyer, Hans. Ergebnisse einer reise durch das zwischenseengebiet Ostafrikas 1911. Mitt. Deut. Schutzgeb. Wiss. Beih. Deut. Kolonialbl. Ergänzungsh. no. 6. 127 p. illus. (incl. maps), 8 pl., 3 maps. 1913.

Includes (p. 93-101) list of species from several localities in northern German East Africa collected by author and identified at the Berlin Herbarium.

Mildbraed, Johannes. Wissenschaftliche ergebnisse der Deutschen Zentral-Afrika-expedition 1907-1908 unter führung Adolph Friedrichs, Herzogs zu Mecklenburg. bd. II. Botanik. 718 p. illus., 78 pl. 27 cm. Leipzig, 1910-14.

Includes list of vascular and cellular plants, with localities, general range, and occasional annotations, by G. Brause, G. Hieronymus, R. Pilger, and others; not in systematic order. Part 7 is ecological and phytogeographical. The expedition worked in northwestern Tanganyika, Ruanda and Urundi, north-eastern Belgian Congo, and Uganda.

Schweinfurth, Georg. Phanerogams. In Höhnel, Ludwig von. Discovery of Lakes Rudolf and Stefanie. v. 2, p. 350-368. London and N. Y., 1894.

List of 171 vascular plants, mostly from Kilimanjaro, with locality and altitude; lists of mosses, liverworts, and lichens by other authors.

Trotha, Hellmuth von. Der wald um Tabora in Deutsch-Ostafrika. Notizbl. K. Bot. Gart. Berlin 5: 212-231. 1911.

Annotated list of 184 useful plants, with vernacular names.

TOGO

See also French West Africa (Chevalier); Gold Coast (Burt Davy and Hoyle); West Africa.

General

Volkens, Georg. Die nutzpflanzen Togos. Notizbl. K. Bot. Gart. Berlin App. 22. 119 p. 60 fig. 1909-10.

Annotated list, classified by uses, with vernacular names.

Local

Büttner, Richard. Zur flora des Togolandes. Verzeichniss der von Dr. R. Büttner in den jahren 1890 und 1891 im Togohinterlande, zumeist in der nähe der Forschungsstation Bismarckburg gesammelten pflanzen. Mitt. Forschungsreis. u. Gelehr. Deut. Schutzgeb. 6: 231-236. 1893.

Unannotated list of vascular and cellular plants from Adeliland.

Gaisser, Karl. Die produktion der eingeborenen des bizirkes Sokode-Bassari (Schutzgebiet Togo). Mitt. Deut. Schutzgeb. Wiss. Beih. Deut. Kolonialbl. 25: 239-318. illus. 1912.

Includes account of wild and cultivated plants and animals of economic importance and alphabetical list of vernacular names of plants in the Tschaudjo language, with botanical equivalents and names in other native languages.

TRANSVAAL

See also South Africa; West Africa (Oliver).

General

Burt Davy, Joseph. Alien plants spontaneous in the Transvaal. Rpt. So. African Assoc. Adv. Sci. 2: 252-299. 1904.

Annotated list of 141 species; economic aspects, phytogeography.

—— A manual of the flowering plants and ferns of the Transvaal with Swaziland, South Africa. pt. 1-2 (xxxv, 529 p., incl. 80 fig., map.) 19.5 cm. London, 1926-32.

Glossary, key to families, etc.; annotated briefly descriptive flora of vascular plants, with vernacular names and citation of collectors' numbers. To contain about 4,500 species; pt. 1 contains Marattiaceae-Bombacaceae (Hutchinsonian sequence of families), pt. 2, Malvaceae-Umbelliferae.

—— Native trees of the Transvaal. Transvaal Agr. Jour. 5: 413-433. pl. 69-75. 1907.—Additions and corrections . . . Rpt. Transvaal Dept. Agr. 1906/07: 148-154. 1908.

Life zones, with lists of species; list of 269 trees, with localities and vernacular names.—See also his Notes on some Transvaal trees and shrubs. Bul. Misc. Inform. Kew 1908: 145-175. 1908.

—— and Pott, Mrs. Reno. A first check-list of the flowering plants and ferns of the Transvaal and Swaziland. Annals Transvaal Mus. 3: 119-182. 1912.—Additions and corrections to the recorded flora . . . So. African Jour. Sci. 9: 343-356. 1913; 15: 570-571. 1919.—Addendum to the First check-list . . . Annals Transvaal Mus. 6: 119-135. 1920.

Unannotated list of 3,298 vascular plants (including the "Additions and corrections"). Mrs. Pott is joint author of "A first check-list . . ." and sole author of the "Addendum . . ."—See also Bremekamp, C. E. B. New or otherwise noteworthy plants from the northern Transvaal. l. c. 15: 233-264. 1933.

Verdoorn, I. C. Edible wild fruits of the Transvaal. Bul. Dept. Agr. and Forestry Union So. Africa no. 185 (Plant Ind. Ser. no. 29). 55 p. 14 fig., 7 col. pl. 1938.

Annotated systematic list, with vernacular names, keys, and brief descriptions.

Local

Galpin, E. E. Botanical survey of the Springbok flats, Transvaal. Mem. Bot. Survey So. Africa no. 12. 100 p. plates. 1927.

Mainly ecological; includes (p. 58-79) briefly annotated list of 584 phanerogams.

Glover, P. E. A contribution to the ecology of the highveld flora. So. African Jour. Sci. 34: 224-259. 16 fig. 1937.

Includes annotated list of vascular plants from Frankenwald, 12 miles from Johannesburg.

Obermeijer, A. A. A preliminary list of the plants found in the Kruger National Park. Annals Transvaal Mus. 17: 185-227. map. 1937.

Geography, climate, general features of flora; list of over 300 vascular plants, mostly collected by Land in 1932, with data and general range.

—— Schweickerdt, H. G., and Verdoorn, I. C. An enumeration of plants collected in the northern Transvaal. Bothalia 3: 223-253. 1 fig. (map). 1937.

List of vascular plants, with data, collected chiefly in vicinity of the farm "Zoutpan" at the western end of the Zoutpansberg Range.

Smuts, J. C., and Hutchinson, John. The vegetation of Schoemanskloof, eastern Transvaal. Bul. Misc. Inform. Kew 1933: 417-427. 1933.

General features of flora (by Smuts); list of vascular plants collected by Smuts in June 1932, with occasional annotations (by Hutchinson).

Verdoorn, I. C. Notes on the vegetation of the Fountains Valley, Pretoria. *So. African Jour. Sci.* 26: 190-194. 1929.

Geology, etc.; running partial list of vascular plants collected by author, arranged according to season.

TUNISIA

See also Algeria (Battandier and Trabut; Bouquet; Cosson; Ducellier and Maire; France, Comité régional d'Algérie; Lapie and Maige; Trabut).

General

Bocquillon-Limousin, Henri. Les plantes utiles de la Tunisie. *Monde des Plant.* 4: 241-244, 260, 276-279, 288-289, 305-312. 1895.

Briefly annotated systematic lists of medicinal and other useful plants.

Bonnet, Edmond, and Barratte, Gustave. Catalogue raisonné des plantes vasculaires de la Tunisie. xlix, 519 p. 25 cm. Paris, 1896. (Exploration scientifique de la Tunisie.)—Bonnet, E. Additions et corrections . . . *Jour. de Bot.* 13: 83-86. 1899.

Botanical explorations, physiography, geology, climate, cultivated plants, affinities of flora (by Doumet-Adanson); annotated list of vascular plants, with references, localities, and extralimital range.

Cuénod, Auguste. Les plantes médicinales de Tunisie I. Distribution géographique . . . *In* Comité régional des plantes médicinales de Tunisie. Les plantes médicinales de Tunisie. p. 9-35. Tunis, 1920.

Annotated list of principal wild species, alphabetically arranged by vernacular names.

Local

Bardin, L., père. Catalogue méthodique et raisonné des plantes vasculaires de Carthage et de ses environs, avec indication des plantes médicinales indigènes. *Revue Tunis. Inst. Carthage* 5: 95-110, 183-203, 372-378, 509-516. 1898; 6: 96-106, 189-203, 353-359, 472-485. 1899.

Annotated list of 694 vascular plants based on author's collections, with notes on medicinal plants.

Burollet, P. A. La Sahel de Sousse, monographie phytogéographique. *Annales Serv. Bot. Tunisie* v. 4, fasc. 2. 270 p. 8 pl., map. 1927.

Botanical explorations, physiography, climate, geology, water, etc.; mostly unannotated list of 1,038 species and varieties of vascular and cellular plants (754 species of vascular plants) known from the region; ecology, plant formations, weeds, cultivated and useful plants, history of vegetation, bibliography. The term Sahel de Sousse, as used by the author, refers to the coastal region for an extent of about 100 km. about Sousse (Susa).

Chabrolin, Charles. Note sur la flore des îles de la Galite et du Galiton. *Bul. Soc. Hist. Nat. Afrique Nord* 24: 233-242. 1933.

Geology, botanical explorations, etc.; unannotated lists of phanerogams of Îles de La Galite and Galiton, Cape Serrat, with additional records for Île Plane and Île Cani. These islands are about 40 km. north of Cape Serrat, Tunisia.

Cosson, E. S. Exploration de la Kroumirie centrale. *Bul. Soc. Bot. France* 32: 296-324. 1885.

General features of flora, with lists of species of different localities; list of vascular plants and mosses collected by the author and others in 1883, with localities.

Gillot, F. X. Notes botaniques. *In* Chaignon, H. de. Contributions à l'histoire naturelle de la Tunisie. *Bul. Soc. Hist. Nat. Autun* 17: 116-142. 1904.

List of vascular plants, mosses, and lichens collected by Vicomte H. de Chaignon in 1902-1904 at Bir M'Cherga, Aïn-el-Aker, and Zaghouan, with notes on more important species.

— Une journée d'herborisation à Souk-el-Khemis (Tunisie). *Bul. Soc. Bot. France* 47: 289-296. 1900.

List of vascular plants collected by author, with localities.

Joly, Alexandre. Note sur la flore du sud Tunisien (Jefara et Diebel Labiod). *Compt. Rend. Assoc. Franç. Avanc. Sci.* 38 (1909): 569-577. 1910.

General features of flora; list of spermatophytes collected by author, with localities.

Lindberg, Harald. *Itinera mediterranea*. Ein beitrage zur kenntnis der westmediterranen flora auf grund eines materials von gefässpflanzen, gesammelt in Tunesien und Sizilien im jahre 1924 und in Spanien und Marokko im jahre 1926. Acta Soc. Scient. Fenn. n. s., B, v. 1, no. 2. 178 p. 32 pl. 1932.

Author's itinerary; list of about 2,100 vascular plants, with localities.

Murbeck, Svante. Contributions à la connaissance des renonculacées [polypodiacees] de la flore du nord-ouest de l'Afrique et plus spécialement de la Tunisie. Lunds Univ. Årsskr. afd. 2, v. 33, no. 12. 126 p. pl. 1-6. 1897; v. 34, no. 7. 41 p. pl. 7-9. 1898; v. 35, no. 3. 30 p. 2 fig., pl. 10-12. 1899; v. 36, no. 1. 34 p. 9 fig., pl. 13-15. 1900.—Contributions . . . 2. sér. 1. c. n. f., afd. 2, v. 1, no. 4. 40 p. pl. 1-7. 1905; v. 2, no. 1. p. 41-83. pl. 8-20. 1905.

List of vascular plants collected mainly by the author, with localities and frequent annotations. Ser. 2 (no. 1) includes a flora of Djebel Bargou, a branch of the Atlas Mountains, in the northeast part of central Tunisia, arranged by habitats.

Pitard, C. J. Rapports sur les herborisations faites par la Société pendant la session de Tunisie. Bul. Soc. Bot. France 56 (Sess. Extr.): cxi-cxcviii. pl. 2-19. 1910.

Physiography, soils, human influence on flora; lists of plants collected by members of the Société Botanique de France in 1909, grouped by localities and habitats; phytogeography. (Central Tunisia, in region of Gabès, Gafra, and Tozeur.)

UGANDA

See also Anglo-Egyptian Sudan (Grant; Rein); Belgian Congo (Burt; Cotton); Ethiopia (Engler, Ueber die hochgebirgsflora); Kenya (Fries); Northern Rhodesia (Fries); Tanganyika (Engler, Die pflanzenwelt Ost-Afrikas; Mildbraed); West Africa (Oliver).

All papers on Mount Ruwenzori are placed under Belgian Congo.

General

Burt Davy, Joseph, and Bolton, Florence. Uganda protectorate. 132 p. 21.5 cm. Oxford, 1935. (Check-lists of the forest trees and shrubs of the British Empire, no. 1.)

Botanical explorations, plant zones, annotated list of more important trees, bibliography; annotated list of 1,146 species and varieties of native woody plants, with vernacular names (not indexed) and citation of exsiccatae; list of cultivated woody plants.

Wright, C. H. List of the plants occurring in the Uganda Protectorate. In Johnston, H. H. The Uganda Protectorate. p. 329-351. New York, London, 1902.

Botanical explorations; list of vascular and cellular plants, with localities and collectors.

Local

Baker, E. G., Moore, S. LeM., and Rendle, A. B. The botany of the Anglo-German Uganda boundary commission. Jour. Linn. Soc. Bot. 37: 116-227. pl. 1-4. 1905.

Phytogeography; list of phanerogams collected by Dr. A. G. Bagshawe, with localities, vernacular names, uses and general range. The area covered was along the boundary between the present Uganda and Tanganyika west of Lake Victoria Nyanza and the island of Buvuma in the lake.

Dawe, M. T. Report on a botanical mission through the forest districts of Buddu and the Western and Nile Provinces of the Uganda Protectorate. 63 p. 5 pl., map. 33 cm. London, 1906.

Physiography, general features of flora, etc.; list of vascular and cellular plants collected, with localities and occasional vernacular names and uses.—See also Stapf, Otto, and others. Plantae novae Daweanae in Uganda lectae . . . with an appendix by M. T. Dawe. Jour. Linn. Soc. Bot. 37: 495-544. pl. 21-23 (map). 1906.

Lugard, E. J., and Bullock, A. A. The flora of Mount Elgon. Bul. Misc. Inform. Kew 1933: 49-106. 1 fig. (map). 1933.

Physiography, climate, natives, fauna, plant zones, bibliography (by Lugard); list of 649 vascular plants collected in 1930-31 by E. J. and Mrs. C. Lugard, with data and general range.

WEST AFRICA

Under this heading are included general works covering all or much of the region from Mauritania to Angola, inclusive.

Ascherson, Paul. Botanisch-ethnographische notizen aus Guinea. Aus den aufzeichnungen von Thonning in Schumacher's Beskrivelse af Guineiske planter. Zeitschr. Ethnol. 11: 231-258. 1879.

Annotated list of 166 wild and cultivated plants, mostly economic, with vernacular names (indexed). Refers to the region of "Upper Guinea."

Chevalier, Auguste. Énumération des plantes cultivées par les indigènes en Afrique tropicale et des espèces naturalisées dans le même pays et ayant probablement été cultivées à une époque plus ou moins reculée. Bul. Soc. Natl. Acclim. France 59: 65-79, 104-110, 133-138, 239-242, 312-318, 341-346, 386-392. 1912.

Systematic list of about 293 species and varieties, with brief notes on origin and area where cultivated. Covers region from Mauritania to Congo.

— Énumération des plantes récoltées dans les régions suivantes: Mauritanie, Oasis sahariennes, Sénégal, Casamance, Guinée française, Soudan français, Côte d'Ivoire, Dahomey et en outre Gold-Coast, Sierra-Leone, Lagos, Old-Calabar. xiii, 798 p. port., map. 25 cm. Paris, 1920. (Exploration botanique de l'Afrique occidentale française. t. 1.)

List of vascular and cellular plants collected by the author and associates, with localities, collectors' numbers, vernacular names, and occasional annotations.

Dalziel, J. M. The useful plants of west tropical Africa . . . Being an appendix to the Flora of west tropical Africa . . . xi, 612 p. 25.5 cm. London, 1937.

Bibliography; annotated systematic list of spermatophytes, with vernacular names and their localities, uses, and references. Covers same area as Hutchinson and Dalziel, Flora of west tropical Africa. The information and references in Holland's The useful plants of Nigeria are not repeated, but references to his work are given under each species.

Gürke, Max. Uebersicht über die gebiete des tropischen Afrika, in welchen deutsche reisende ihre im Berliner Botanischen Museum niedergelegten sammlungen zusammen brachten, mit angabe der wichtigsten, über ihre reisen und deren ergebnisse veröffentlichten aufsätze. In Engler, A. Beiträge zur flora von Afrika I. Bot. Jahrb. Engler 14: 279-292. 1891.

Briefly annotated list of collectors and their itineraries, with bibliographies.

Hua, Henri. Les explorations botaniques dans les colonies françaises de l'Afrique tropicale, d'après les collections conservées au Muséum d'histoire naturelle de Paris. Actes Cong. Internatl. Bot. 1^{re} Paris, 1900. p. 239-247. 1900.

Brief account of principal collectors in Senegal, French Guinea, French Sudan, Ivory Coast, Dahomey, and French Equatorial Africa (French Congo).

Hutchinson, John, and Dalziel, J. M. Flora of west tropical Africa. The British west African colonies, British Cameroons, the French and Portuguese colonies south of the Tropic of Cancer to Lake Chad, and Fernando Po. 2 v. 381 fig., 2 maps. 26 cm. London, 1927-36.

General features of flora, botanical explorations, bibliography, glossary, key to families; systematic list of spermatophytes, with keys, note on habit, references, citation of localities and exsiccatae. Covers area along Tropic of Cancer from coast east to the western boundary of Chad Territory (about 15° E.), then south along the eastern border of Nigeria to the coast, including Cameroon Mountain, Fernando Po, and the smaller islands off the coast, the whole nearly equivalent to the "Upper Guinea" of the Flora of Tropical Africa.

Möller, A. F. Medizinische pflanzen Westafrikas. Ber. Deut. Pharm. Gesell. 8: 46-53, 93-100, 240-243. 1898.

Briefly annotated list of medicinal species of "Ober- und Unter-Guinea," in part systematically arranged, with occasional vernacular names.

Moloney, Alfred. Sketch of the forestry of West Africa, with particular reference to its present principal commercial products. vi, 533 p. 20 cm. London, 1887.

Includes (p. 269-458) briefly annotated "list of economic plants of western Africa," by J. M. Hillier. Covers principally the regions of Upper Guinea and Lower Guinea, as defined in Oliver, Flora of Tropical Africa.

Oliver, Daniel, and others. *Flora of tropical Africa*. v. 1-10, pt. 1. 22.5 cm. London, 1868-1937.

Descriptive flora of spermatophytes, with keys, synonymy, local and general range, citation of exsiccatae. Specimens cited are grouped under the following geographical regions as defined in vol. 7: Upper Guinea (west coast region, from the mouth of the Senegal River to Lake Chad, south to the southern boundary of Cameroons, including Fernando Po); North Central (the Sahara north to the Tropic of Cancer, eastward to about 26° E. Long., south to border of Upper Guinea and Belgian Congo); Nile Land (the Nile Basin from the 26th meridian to the coast, south to border of Belgian Congo and Tanganyika); Lower Guinea (west coast region from southern boundary of Cameroons to Tropic of Capricorn, bounded on the east by Belgian Congo, Rio Kwango, and the 20th meridian); South Central (Belgian Congo, and Angola east of the 20th meridian); Mozambique (Tanganyika, Mozambique, Rhodesia, etc., south to the Tropic of Capricorn). Vol. 1-3 were written by Oliver, with the assistance of other botanists at Kew, especially W. P. Hiern and J. G. Baker; the remaining volumes, written mostly by the botanists at Kew, were edited by W. T. Dyer (v. 4-6, pt. 1, v. 7-8), David Prain (v. 6, pt. 2, v. 9), and A. W. Hill (v. 10, pt. 1). Not yet completed.

Unwin, A. H. *West African forests and forestry*. 527 p. 110 fig. on plates. 26 cm. London, 1920.

Includes annotated lists, with vernacular names and uses, of the trees of Gambia, Sierra Leone, Liberia, Ivory Coast, Gold Coast, Togo, Nigeria, Cameroons; briefly annotated bibliography.

ZANZIBAR

See also West Africa (Gürke; Oliver).

General

Sacleux, Charles, *père*. *Essai de catalogue des plantes de Zanzibar, Pemba, Mombassa, Amou et de la grande terre en face de ces îles jusqu'à la ligne de partage des eaux entre la côte et les grands lacs*. xxxvi p. 17 cm. [Zanzibar, 18-?] (Extrait de Dictionnaire français Swahili. Zanzibar, 1888-91.)

Systematic list, with localities and vernacular names.

Werth, Emil. *Die vegetation der Insel Sansibar*. 97 p. 6 fig., map. 24.5 cm. Berlin, 1901. (Inaug.-diss., Bern.—Reprinted from Mitt. Seminars Orient. Sprach. Univ. Berlin v. 4, abt. 3. 1901.)

Mainly ecological; includes sections on cultivated plants and weeds; no list of species.

AUSTRALASIA

Here used in a restricted sense to include only Australia, New Zealand, and Tasmania, the other islands commonly included in Australasia being given under Insular Floras.

AUSTRALIA

See also Tasmania (Hooker).

Bailey, F. M. *Concise history of Australian botany*. Proc. Roy. Soc. Queensland 8 (2): xvii-xli, xlv-xlvii. 1891.

Annotated list of collectors, chronologically arranged.

Bentham, George. *Flora australiensis: a description of the plants of the Australian territory*. 7 v. 22 cm. London, 1863-78.

Collections examined; descriptive flora of vascular plants, with keys, synonymy, local and general range; includes the plants of Tasmania. Title page says "by George Bentham . . . assisted by Ferdinand Mueller . . ." but in preface (v. 1, p. 12*) Bentham states "I alone am therefore responsible for the details of this work, for the limitation given to genera and species, for their characters and description."

Cheel, Edwin. A review of the flora of the arid and semi-arid regions of Australia. Rpt. Austral. and New Zeal. Assoc. Adv. Sci. 23: 307-337. 1937.

Brief account of botanical explorations, forage plants, erosion control, bibliography; mostly unannotated list of plants recorded from the region.

Guilfoyle, W. R. Australian plants suitable for gardens, parks, timber reserves, etc. 478 p. (incl. plates). 23 cm. Melbourne, etc., [1911?].

Alphabetical, briefly annotated list of native plants suitable for cultivation; lists of common names of eucalypts and of other plants. The plates are mostly habit photographs of trees and shrubs.

Maiden, J. H. Australian indigenous plants providing human foods and food-adjuncts. Proc. Linn. Soc. N. S. Wales II, 3: 481-556. 1888.

Annotated list of 212 plants, alphabetically arranged by scientific names, with uses and vernacular names.

—— Australian vegetation. *In* The commonwealth of Australia: federal handbook . . . p. 163-209. Melbourne, [1914].

General sketch of Australian flora.

—— A bibliography of Australian economic botany. Pt. 1. v, 61 p. 24 cm. Sydney, 1892. (Technical education series, no. 10. Department of Public Instruction [N. S. Wales].)

Annotated bibliography, the titles classified by subjects; indices of authors and subjects. "I have omitted all papers and works which consist of 'pure' botany."

—— Indigenous vegetable drugs. Agr. Gaz. N. S. Wales 9: 1106-1127. 1898; 10: 40-53, 131-141. 1899. (Part II reprinted as Misc. Pub. Dept. Agr. N. S. Wales no. 256.)

Annotated systematic list.

—— Native food plants. Agr. Gaz. N. S. Wales 10: 117-130, 279-290, 618-628, 730-740. 1899. (Reprinted as Misc. Pub. Dept. Agr. N. S. Wales no. 282. 65 p.)

Annotated systematic list, with vernacular names, uses, and localities. Covers Australia generally.

—— Records of Australian botanists—(a) General, (b) New South Wales. Jour. and Proc. Roy. Soc. N. S. Wales 42: 60-132. 1908.—1st suppl. Rpt. Australas. Assoc. Adv. Sci. 13 (1911): 224-243. pl. 20-21 (ports.). 1912.—2d suppl. Jour. and Proc. Roy. Soc. N. S. Wales 55: 150-169. pl. 8-9 (ports.). 1921.

Bibliography; alphabetical lists of botanists, with biographical data. Index in first supplement covers the whole series of similar papers on different States to that date.

—— Records of the earlier French botanists as regards Australian plants. Jour. and Proc. Roy. Soc. N. S. Wales 44: 123-155. pl. 3-13 (ports.). 1910. Bibliographic and biographical data.

—— Useful Australian plants no. 1-108. *In* Agr. Gaz. N. S. Wales v. 4-17, 19-20, 22-25. plates. 1893-1914.

Accounts of various species, in no regular order; descriptions, range, uses.

—— The useful native plants of Australia (including Tasmania). xii, 696 p. 22 cm. Sydney, 1889.

Annotated list, with vernacular names and uses, the plants classified under 11 headings and arranged alphabetically by scientific names; indices of vernacular and botanical names.

Mueller, Ferdinand von. Second systematic census of Australian plants, with chronologic, literary and geographic annotations. Pt. I.—Vasculares. 244 p. 21 x 28 cm. Melbourne, 1889.

Systematic list of vascular plants, with references to place of original publication and to Bentham's "Flora Australiensis" and the author's "Fragmenta" and indication of range.

Sutton, C. S. Bibliography of the Australian floristic and ecological plant-geography. Rpt. Australas. Assoc. Adv. Sci. 16 (1923): 110-118. 1924.

Unannotated list, arranged alphabetically by authors.

NEW SOUTH WALES

See also Queensland (Francis); South Australia (Wood, Floristics and ecology of the mallee); Victoria (Stirling, Notes on a census).

General

Anderson, R. H. The naturalised flora of New South Wales (excluding Gramineae). Contrib. N. S. Wales Natl. Herb. 1: 16-33. 1939.

Systematic list of 415 angiosperms, with indication of country of origin.

Dixon, W. A. The plants of New South Wales; an analytical key to the flowering plants, except grasses and rushes, and ferns of the state, set out in an original method, with an up-to-date list of native and introduced flora. xxiv, 322 p. 3 (i. e. 6) pl. 17 cm. Sydney, 1906.

Keys to vascular plants.

Maiden, J. H. The forest flora of New South Wales. 8 v. 295 pl. 32 cm. Sydney, 1902-25.

Descriptions, vernacular names, uses, timber, habitat, and localities; the species not in systematic order.

Some reputed medicinal plants of New South Wales. Proc. Linn. Soc. N. S. Wales II, 3: 355-393. 1888.

Annotated list of 70 native species, alphabetically arranged by scientific names.

and Betcher, Ernst. A census of New South Wales plants. xx, 216 p. 24.5 cm. Sydney, 1916.

Systematic list of vascular plants with references to original descriptions and to Bentham's *Flora Australiensis*. There is a Supplement, listing Algae only.

Moore, Charles, and Betcher, Ernst. Handbook of the flora of New South Wales. A description of the flowering plants and ferns indigenous to New South Wales. xxxix, 582 p. 22 cm. Sydney, 1893.—Moore, Charles. Plants with their habitats, discovered to be indigenous to this colony since the publication of the Handbook . . . Jour. and Proc. Roy. Soc. N. S. Wales 27: 84-85. 1893.

Botanical explorations, glossary; descriptive flora, with keys; list of plants from Lord Howe and Norfolk Islands not included in the descriptive flora; list of naturalized plants, with indication of native range; glossary of specific names.

Rietmann, Othmar. Die nutzpflanzen von Neu-Süd-wales. Ber. St. Gall. Naturw. Gesell. 1864/65: 105-118. 1865.

Running account of principal useful plants.

Local

Baker, R. T. On the botany of Rylstone and the Goulburn River districts. Pt. I. Proc. Linn. Soc. N. S. Wales 21: 427-466. 1896.

Physiography, geology; annotated list of about 350 vascular plants. (About 100 miles northwest of Sydney.)

Barwick, A. C. The botany of the "clears" and "basalt masses," County of Hunter, N. S. Wales. Proc. Linn. Soc. N. S. Wales 28: 932-943. 1904.

General features of flora; annotated list of vascular plants. The "clears" are areas of volcanic soil, characterized by the absence of underbrush. (Central eastern New South Wales.)

Cambage, R. H. Notes on the native flora of New South Wales. X. The Federal Capital Territory. Proc. Linn. Soc. N. S. Wales 43: 673-711. 2 fig. (incl. map), pl. 71-74. 1919.

Botanical explorations, topography, geology, climate, soil, general features of flora; list of vascular plants (and Marchantiaceae) observed.

Chisholm, E. C. The Comboyne plateau. Its general conformation and flora. Proc. Linn. Soc. N. S. Wales 50: 284-293. 1 fig. (map). 1925.—Additional flora . . . l. c. 52: 378-379. 1927.—Further additions . . . l. c. 59: 143-155. 1934.—Final additions . . . l. c. 62: 65-72. 1937.

Physiography, general features of flora; unannotated list of vascular plants. (Near the coast southwest of Port Macquarie.)

The flora of Marrangaroo, County of Cook. Austral. Nat. 5: 122-129. 1 fig. (map). 1923.

Topography, climate, distribution of some trees; unannotated list of vascular plants. (About 100 miles from Sydney.)

Cleland, J. B. List of plants growing upon Milson Island, Hawkesbury River. Rpt. Govt. Bur. Microbiol. N. S. Wales 3: 218-225. 1914.

Annotated list of 234 native and 55 introduced vascular plants. (Near Brooklyn, north of Sydney.)

Davis, Consett, Day, M. F., and Waterhouse, D. F. Notes on the terrestrial ecology of the Five Islands. I. Proc. Linn. Soc. N. S. Wales 63: 357-383. 8 fig. (incl. maps), pl. 15-19. 1939.

Includes annotated list (p. 380-383) of vascular plants. (Near Port Kembla.)

Dwyer, J. W. A floral survey of the south western slopes of N. S. Wales round about Temora and Barmedman. *Austral. Nat.* 4: 212-224. 1921.
Soils; annotated list of cellular and vascular plants collected by author from Stockinbingal to Wyalong. (Southeastern New South Wales.)

Hamilton, A. A. Topographical and ecological notes on the flora of the Blue Mountains. *Proc. Linn. Soc. N. S. Wales* 40: 386-413. 1915.

Botanical explorations (with included bibliography), general features of flora, etc.; annotated list of vascular plants. (About 70 miles west of Sydney.)

Hamilton, A. G. A list of the indigenous plants of the Mudgee district. *Proc. Linn. Soc. N. S. Wales* 11, 2: 259-306. 1887.

Geology, climate, etc.; annotated list of 1,208 vascular plants, with notes on uses. (About 40 miles east of Wellington.)

On the flora of Mt. Wilson. *Proc. Linn. Soc. N. S. Wales* 24: 346-372. 1899.

Physiography, climate, general features of flora; list of 545 vascular plants; bibliography. Mount Wilson is on the boundary between New South Wales and Queensland, about 60 miles from the coast.

Haviland, F. E. Notes on the indigenous plants in the Cobar district. *Proc. Linn. Soc. N. S. Wales* 36: 507-540. 1 fig. (map). 1912; 38: 639-655. 1914.

Geology, general features of flora, climate; annotated list of 504 vascular and cellular plants. (North-central New South Wales.)

Maiden, J. H. The botany of Howell (Bora Creek): a tin-granite flora. *Proc. Linn. Soc. N. S. Wales* 31: 63-72. 1906.

Physiography, etc.; list of vascular plants. (Northeastern New South Wales, on western slope of New England Range.)

A contribution towards a flora of Mount Kosciusko. *Agr. Gaz. N. S. Wales* 9: 720-740. 1898.—A second contribution . . . 1. c. 10: 1001-1042. pl. 1899. (Reprinted as *Misc. Pub. Dept. Agr. N. S. Wales* 241, 331.)

General features of flora, bibliography; partly annotated lists of vascular plants found at different elevations. Mount Kosciusko (7,328 ft.) is the highest mountain in Australia. The second contribution is similarly arranged and has also notes on the general characteristics of alpine plants and on the phytogeographic relation of Mount Kosciusko and Tasmania. (Southeastern New South Wales.)

The Dorrigo forest reserve. *Agr. Gaz. N. S. Wales* 5: 218-223, 599-633. map. 1894; 7: 38-39. 1897; 8: 523. 1897. (1st pt. reprinted 41 p.)

Includes annotated list of vascular plants collected by the author in 1893. (In County of Fitzroy, on the north coast.)

A list of plants collected by Mr. Richard Helms in the Australian Alps, February, 1893. *Agr. Gaz. N. S. Wales* 5: 836-841. 1894.

List of phanerogams, with localities and altitudes, collected in the neighborhood of Mount Kosciusko, in southeastern New South Wales.

A list of plants collected in the vicinity of the Jenolan Caves, by W. F. Blakely and J. C. Wibur. *Agr. Gaz. N. S. Wales* 12: 1390-1394. 1901.
Unannotated list of vascular plants. (About 70 miles almost due west of Sydney.)

Ross, W. J. C. Notes on the flora of Bathurst and its connection with the geology of the district. *Rpt. Australas. Assoc. Adv. Sci.* 7: 467-481. 1898.

Physiography, general features of flora; tabular list of spermatophytes, with indication of geological formations on which they occur. (About 100 miles northwest of Sydney.)

Turner, Frederick. Botany of north-eastern New South Wales. *Proc. Linn. Soc. N. S. Wales* 31: 365-392. 1906.

Physiography, climate, general features of flora (including useful plants); no list of species (1,767 known). (Area between 32° S. Lat. and Queensland boundary, west to 152°20' and 151° E. Long.)

Botany of north-western New South Wales. *Proc. Linn. Soc. N. S. Wales* 30: 32-91. map. 1905.

Physiography, climate, useful plants of aborigines, general features of flora; unannotated list of 1,137 vascular plants. The area covered lies between the northern boundary of New South Wales and 32° S. Lat. and between 147° and 151°20' E. Long.

Turner, Frederick. Botany of south-western New South Wales. Proc. Linn. Soc. N. S. Wales 29: 132-181. 1904.

Climate, general features of flora, with notes on economic plants and vernacular names; unannotated list of vascular plants. The area covered extends from 33° S. Lat. to the Murray (or Hume) River, and from 141° to 147° E. Long.

——— Botany of the Darling, New South Wales. Proc. Linn. Soc. N. S. Wales 28: 406-442. 1903.

Physiography, climate, general features of flora, botanical explorations; list of 760 vascular plants from vicinity of Darling River, between 29° and 33° S. Lat. and 141° to 147° E. Long.

——— The vegetation of New England, New South Wales. Proc. Linn. Soc. N. S. Wales 28: 276-311. 1903.

Geology, physiography, climate, general features of flora; list of 708 vascular plants, with localities. The area covered is that portion of New South Wales extending "northwards along the Dividing Range from a little south of Armidale to the Queensland border."

Woolls, William. Plants indigenous and naturalised in the neighbourhood of Sydney . . . [2d ed.] 71 p. 21.5 cm. Sydney, 1891. (1st ed., 1880.)

Climate, etc.; unannotated lists of native and naturalized vascular plants and Characeae (1,465 species, of which 1,290 are native).

NORTHERN TERRITORY

See also South Australia (Tate, A census, and A handbook).

Northern Territory was a part of South Australia from 1863 through 1910.

General

Ewart, A. J., and Davies, O. B. The flora of the Northern Territory . . . with appendices by J. H. Maiden . . . and by A. A. Hamilton and Edwin Cheel . . . viii, 387 p. (incl. 27 pl., 14 tab.). map. 24 cm. Melbourne, 1917.

Partly annotated list of vascular plants, with keys or brief diagnoses, localities, uses; alphabetical list of vernacular names; classified lists of useful and poisonous plants.—See also Ewart and others. Contributions to the flora of Australia no. 30-34. Proc. Roy. Soc. Victoria n. s., 38: 77-87, 164-182. 4 fig. 1926; 39: 1-12, 154-161. 5 fig. 1926-27; 40: 81-87. 1928. (Reprinted.)

Local

Black, J. M. Botany. In Scientific notes on an expedition into the interior of Australia carried out by Capt. S. A. White . . . from July to October, 1913. Trans. and Proc. Roy. Soc. So. Austral. 38: 460-471. pl. 38-39. 1914.

Botanical explorations; annotated list of 178 vascular plants from South Australia and Northern Territory, mostly from the latter.

Cleland, J. B., and Johnston, T. H. Aboriginal names and uses of plants at the Granites, Central Australia. Trans. Roy. Soc. So. Austral. 63: 22-26. 1939.

Systematic list, with vernacular names and uses. (Nearly 400 miles northwest of Alice Springs.)

——— and Johnston, T. H. The ecology of the aborigines of Central Australia; botanical notes. Trans. and Proc. Roy. Soc. So. Austral. 57: 113-124. pl. 5. 1933.

Account of principal useful plants, grouped by uses; annotated systematic list of useful plants, with vernacular names. (Vicinity of Mount Liebig, MacDonnell Range.)

Holtze, Maurice. Narrative of an exploring tour across Melville Island, with notes on its botany. Trans. and Proc. Roy. Soc. So. Austral. 15: 114-120. 1892.

Itinerary of author in October 1887, with list of vascular plants collected. (40 miles north of Port Darwin.)

Kempe, Hermann. Plants indigenous to the neighbourhood of Hermannsburg, on the river Finke, central Australia. Trans. and Proc. Roy. Soc. So. Austral. 3: 129-137. 1880; 5: 19-23. 1882.

Annotated list of 287 vascular plants. Also cited as "Indigenous plants of the MacDonnell Range." (Southwestern part of Territory.)

Mueller, Ferdinand von. A catalogue of plants collected during Mr. Alexander Forrest's geographical exploration of north-west Australia in 1879. Jour. and Proc. Roy. Soc. N. S. Wales 14: 81-95. map. 1881.

List of vascular plants, with localities, collected between King's Sound and Port Darwin.

— and Tate, Ralph. List of plants collected during Mr. Tietkens' expedition into central Australia, 1889. Trans. and Proc. Roy. Soc. So. Austral. 13: 94-109. 1890.—Supplemental notes to the list of plants . . . l. c. 13: 170-171. 1890.

Localities; list of 250 vascular plants, with localities.

Rendle, A. B., Moore, S. LeM., Baker, E. G., and Gepp, A. Capt. G. H. Wilkins's Groote Eylandt plants. Jour. Bot. 64: 89-99. 1926.

Unannotated list of species collected on Groote Eylandt in 1925 and Crocodile Islands in 1924.

Tate, Ralph. Botany. In Report on the work of the Horn Scientific Expedition to central Australia. v. 3, p. 117-194. London, Melbourne, 1896.

Botanical regions, general features of flora, phytogeography, botanical explorations; annotated list of 614 vascular plants known from the Larapintine region; list of plants new or rare in the central Eremian region. The Larapintine region of the author is the southwestern part of Northern Territory, from the MacDonnell Range south to Engeadina (Mount Engeadina, 25°10' S. Lat., 134°16' E. Long.) and west to Lake Amadeus. His central Eremian region is the low plains around Lake Eyre in South Australia.

QUEENSLAND

General

Bailey, F. M. Comprehensive catalogue of Queensland plants, both indigenous and naturalised . . . 879 p. illus. (incl. 976 numb. fig.), 16 col. pl. 25 cm. Brisbane, [1913].

Systematic list of vascular and cellular plants with frequent annotations, especially on economic plants. Replaces his "Catalogue of the indigenous and naturalised plants of Queensland" (1890).

— Medicinal plants of Queensland. Proc. Linn. Soc. N. S. Wales 5: 1-29. 1880.

Annotated systematic list of vascular and cellular plants, with uses.

— The Queensland flora. 6 v. (2,015 p.). 88 pl. 24.5 cm. Brisbane, 1899-1902.—General index. 66 p. 1905.

Descriptive flora of vascular plants, with keys, notes on wood and uses, vernacular names (separate indices), local and general range. The "General index" includes only scientific names.

— Queensland woods, with a brief popular description of the trees, their distribution, qualities, uses of timber, etc., etc. [ed. 3.] vi, 13-139 p. 20 cm. London, 1899. (1st ed., 1886.)

Systematic list of 601 species, with brief botanical descriptions, some vernacular names, and notes on wood.

— A sketch of the economic plants of Queensland. 73 p. 21 cm. Brisbane, 1888. (Queensland Commission. Centennial International Exhibition, Melbourne, 1888.)

Annotated list, alphabetically arranged, including wild and cultivated plants.

— The weeds and suspected poisonous plants of Queensland . . . 245 p. 408 fig. 24.5 cm. Brisbane, 1906 (1907).

Annotated descriptive treatment of vascular and cellular plants.

— and others. Contributions to the Queensland flora [no. 17-22]. Bot. Bul. Dept. Agr. and Stock Queensl. no. 17-22. 14, 16, 14, 20, 23, 36 p. illus. 1913-20.

Additional or new species and critical notes. No. 1-15 of this series preceded Bailey's "Queensland flora"; no. 16 dealt mainly with fungi; no. 18-19, by J. F. Bailey and C. T. White; no. 20-21, by C. T. White; no. 22, by C. T. White and W. D. Francis.

Domin, Karel. Beiträge zur flora und pflanzengeographie Australiens. teil 1, abt. 1-2 (951 p.); abt. 3, lfg. 1-8 (sep. paged). 183 fig., 36 pl. 32 cm. Stuttgart, 1915-29. (Bibliotheca Botanica heft 85, 89.)

Annotated list with synonymy, local and general range (with citation of collectors), and critical remarks. Refers primarily to Queensland, and is essentially a flora of that province. Reaches *Solanum* (2,800 species).

Maiden, J. H. Records of Queensland botanists. Rpt. Australas. Assoc. Adv. Sci. 12 (1909): 373-384. 2 part. 1910.

Bibliography; alphabetical list of botanists and collectors, with biographical information.

Local

Bailey, F. M. Botany of the Bellenden-Ker expedition. In Meston, A. Report of the government scientific expedition to Bellenden-Ker Range . . . p. 29-80. Brisbane, 1889.

List of vascular plants collected from Mulgrave River to summit of Bellenden-Ker, and at Bartle Frere and Harvey's Creek, with localities and references.—See also his report in Meston, Archibald. Expedition to the Bellenden-Ker Range. p. 9-17. 1904, for annotated list of species collected on 1904 expedition. (Northeastern Queensland.)

— A contribution towards a flora of Mount Perry. Proc. Roy. Soc. Queensland 1: 61-76. 1884.—Pt. II, by James Keys. l. c. 2: 41-55. 1885.

(1) Unannotated list of vascular plants with vernacular names, based on Keys' collections. (2) Physiography, soil, general features of flora, partly annotated list of additional vascular plants and of cellular plants. The area treated includes the Burnett, Boolboonda, and Normanby Ranges, and is about 70 miles northwest of Maryborough.

— A few words about the flora of the islands of Torres Straits and the mainland about Somerset. Rpt. Australas. Assoc. Adv. Sci. 7 (1898): 423-447. 1898.

General features of flora; annotated list of plants known from Thursday Island.

— and Woods, J. E. T. A census of the flora of Brisbane. Proc. Linn. Soc. N. S. Wales 4: 137-204. 1879.

List of 1,228 vascular plants, with localities and indication of general range. The area covered includes Moreton Island and the country within 25 miles of Brisbane.

Francis, W. D. Australian rain forest trees, excluding the species confined to the tropics. xl, 347 p. 226 fig., pl., map. 24.5 cm. Brisbane, 1929.

Distribution and characters of rain forests in Australia, anatomical modifications, key to species; descriptive systematic list, with keys to genera and range; uses and references given for more important species. Covers east coast region from Cape York to Cape Otway (Queensland, New South Wales, Victoria).

Gibbs, L. S. A contribution to the phyto-geography of Bellenden-Ker. Jour. Bot. 55: 297-310. 1917.

General features of flora; list of species collected by the author, with localities; general range given. The list is by S. LeM. Moore, except palms (Beccari), orchids (Rendle), ferns (Gepp), and fungi (Ramsbottom). (Northeastern Queensland.)

Longman, H. A. The plants of Mast-head Island. Proc. Roy. Soc. Queensland 25: 17-23. 1914.

General features of flora; list of 26 phanerogams. (Islet in the Capricorn group off the coast northeast of Gladstone.)

MacGillivray, W. D. K., and Rodway, F. A. Plants on islands of the Bunker and Capricorn groups. Rpt. Great Barrier Reef Com. 3: 58-63. 1931.

General features of flora of Lady Musgrave, Hoskyn, and Fairfax Islands (Bunker group), North-west, Tryon, Heron, Masthead, Wilson, and One-tree Islands (Capricorn group); list of angiosperms collected by authors in 1927. (Off coast of Queensland on Tropic of Capricorn, 152° E. Long.)

Palmer, Edward. On plants used by the natives of north Queensland, Flinders and Mitchell Rivers, for food, medicine, etc., etc. Jour. and Proc. Roy. Soc. N. S. Wales 17: 93-113. 1884.

Annotated list of 106 vascular plants classified by uses, including a few from other parts of Australia.

Shirley, John. A preliminary list of plants of the National Park, Macpherson Range. *Proc. Roy. Soc. Queensland* 31: 21-27. 1920.

List of trees, vines, and ferns. (Southeastern Queensland, on border of New South Wales.)

Wedd, Joseph. Excursion to Newmarket, 8th October, 1910. Report on botany. *Queensland Nat.* 1: 177-180. 1911.

General features of flora; unannotated list of 166 vascular plants observed by author.

— and White, C. T. List of plants collected at Glasshouse Mountains, September 11th to 13th, 1909. *Queensland Nat.* 1: 119-120. 1910.
Unannotated list of vascular plants.

White, C. T. The biology of North-West Islet, Capricorn group. (H.) Botany. List of plants collected . . . with notes by Dr. W. Macgillivray. *Austral. Zool.* 4: 251-252. 1926.

Annotated list of phanerogams. (Off the coast on the Tropic of Capricorn.)

— Flora of Moreton Island. *Queensland Nat.* 4: 86-91. 1924.

Botanical explorations, ecology, with running list of vascular plants. (Off the coast near Brisbane.)

— Flora of the Bunya Mountains. *Queensland Agr. Jour. n. s.*, 13: 25-31. 1920.

General features of flora; unannotated list of vascular plants collected (mainly by the author) above 2,000 feet elevation. (Southeastern Queensland.)

— Ligneous plants collected for the Arnold Arboretum in north Queensland by S. F. Kajewski in 1929. *Contrib. Arnold Arboretum* no. 4. 113 p. 9 pl. 1933.

Soils, general features of flora, etc.; annotated list of woody plants collected in rain forest region on Atherton Tableland, Mount Bartle Frere and Daintree River.

SOUTH AUSTRALIA

See also Northern Territory (Black; Tate); Western Australia (Mueller and Tate).

General

Black, J. M. Flora of South Australia. 746 p. (incl. 336 fig., 53 pl., map). 25 cm. Adelaide, 1922-29. (Handbooks of the flora and fauna of South Australia, issued by the British Science Guild, South Australian Branch.)

Botanical explorations, glossary; descriptive flora of 2,430 vascular plants (2,046 indigenous), with keys. The treatment of Orchidaceae is by R. S. Rogers.— See also his Additions to the flora . . . [1]-37. *In Trans. and Proc. Roy. Soc. So. Austral.* v. 33, 35-37, 39-62. 1909-1938.

— The naturalised flora of South Australia. 192 p. 206 fig. 18 cm. Adelaide, 1909.

Descriptive flora of 368 phanerogams, with keys; figure of one species in each genus.

Maiden, J. H. A century of botanical endeavor in South Australia. *Rpt. Australas. Assoc. Adv. Sci.* 11 (1907): 158-199. 1908.

Explorations, biographical notices, etc., with mention of publications.

Tate, Ralph. A census of the indigenous flowering plants and vascular cryptogams of extra-tropical South Australia. *Trans. and Proc. Roy. Soc. So. Austral.* 12: 67-128. pl. 5. 1889.—A supplement . . . l. c. 19: 79-83. 1895.

Phytogeographical regions and districts; systematic list of 1,935 species with distribution indicated by districts. An earlier census of the same region was published by the author in 1880-82 (including additions). Covers South Australia and Northern Territory as far north as the Tropic of Capricorn.

— A handbook of the flora of extratropical South Australia, containing the flowering plants and ferns. vi, 303 p. map. 19 cm. Adelaide, 1890.

Flora of 1,935 vascular plants, in form of keys; systematic list, with indication of distribution; glossaries. Covers South Australia and Northern Territory as far north as the Tropic of Capricorn. Northern Territory was a part of South Australia from 1863 until January 1, 1911, when it became a separate territory.

Wood, J. G. The vegetation of South Australia. 164 p. 58 fig. (incl. maps), map. Adelaide, 1937. (Handbooks of the flora and fauna of South Australia, issued by the South Australian branch of the British Science Guild.)

Ecological, with bibliographies; includes (p. 162-164) list of vernacular names of common species.

Local

Adamson, R. S., and Osborn, T. G. B. On the ecology of the Ooldea district. Trans. and Proc. Roy. Soc. So. Austral. 46: 539-564. pl. 32-36. 1922.

Includes (p. 559-563) tabular list of known spermatophytes, with habitat indicated. Ooldea is 427 miles west of Port Augusta, on the eastern edge of the Nullarbor Plain, about 30° S. Lat. and 132° E. Long.

Black, J. M. Botany. In Results of the South Australian Museum expedition to Strzelecki and Cooper Creeks. Trans. and Proc. Roy. Soc. So. Austral. 41: 631-653. pl. 38-43. 1917.

Botanical explorations; annotated list of 153 vascular plants. (About 28° S. Lat., 140° E. Long.)

——— Botany. In Scientific notes on an expedition into the northwestern regions of South Australia. Trans. and Proc. Roy. Soc. So. Austral. 39: 823-842. pl. 69-70. 1915.

Botanical explorations, localities; annotated list of 200 vascular plants.

Cleland, J. B. The botanical features between Oodnadatta and Ernabella in the Musgrave Ranges, with a locality list of plants from the north-west of South Australia identified by Mr. J. M. Black . . . Trans. and Proc. Roy. Soc. So. Austral. 60: 114-126. 1936.

General features of flora; list of vascular plants, with localities, mostly based on plants collected by the "Seventh expedition for the study of the Australian aborigine." The Musgrave Ranges are in about 26° S. Lat., 132° E. Long.

——— List of plants occurring between Outer Harbour and Sellick's Beach. So. Austral. Nat. 15: 9-13, 33-40. 1933-34.

List of 459 species and 2 varieties of vascular plants, with localities; 155 of the species are introduced.

——— Notes on the flora north-west of Port Augusta between Lake Torrens and Tarcoola. Trans. and Proc. Roy. Soc. So. Austral. 54: 140-147. 1 fig. (map), pl. 5-7. 1930.

Notes on commercial sandalwood (*Eucarya spicata*); list of 149 vascular plants, with localities. (South-central South Australia.)

——— and Black, J. M. An enumeration of the vascular plants of Kangaroo Island. Trans. and Proc. Roy. Soc. So. Austral. 51: 24-61. 1927.

Botanical explorations, with included bibliography; list of 725 species of vascular plants, of which 653 are native, with localities and occasional annotations. (Near the coast southeast of Adelaide.)

——— and Black, J. M. The plants of the Encounter Bay district. So. Austral. Nat. 6: 22-30. 1925.—Additional records. l. c. 8: 39-41. 1927.

Mostly unannotated list of 603 species and 10 varieties of vascular plants. (About 40 miles south of Adelaide.)

——— Black, J. M., and Reese, L. The flora of the north-east corner of South Australia, north of Cooper's Creek. Trans. and Proc. Roy. Soc. So. Austral. 49: 103-120. 1 fig. (map). 1925.—Additions to the flora of Minnie Downs. So. Austral. Nat. 8: 28-29. 1927.

Botanical explorations, soils, general features of flora; list of 275 vascular plants (including additions), with localities. (Coopers Creek is about 28° S. Lat., 140° E. Long.)

——— and Johnston, T. H. Aboriginal names and uses of plants in the northern Flinders Ranges. Trans. Roy. Soc. So. Austral. 63: 172-179. 1939.

List of vascular and cellular plants, with vernacular names and notes on uses, collected by authors in May, 1937, in region of Nepabunna; also additional names and uses recorded by Hale and Tindale.

Fawcett, S. G. M., and Vance, C. E. List of vascular plants. In The Sir Joseph Banks Islands. Reports of the expedition of the McCoy Society . . . Proc. Roy. Soc. Victoria n. s., 50: 306-311. 1938.

Bibliography; tabular list of phanerogams, showing range on islands, habitat, and habit. (In Spencer Gulf.)

Koch, Max. A list of plants collected on Mt. Lyndurst Run, S. Australia. Trans. and Proc. Roy. Soc. So. Austral. 22: 101-118. 1898.—Supplementary list . . . 1. c. 24: 81-85. 1900.

Annotated list of vascular plants, with vernacular names and notes on uses; list of introduced plants. In the two papers 390 indigenous and about 20 introduced species are recorded. (About 30° S. Lat., 138° E. Long.)

Maiden, J. H. A contribution to the botany of South Australia. Trans. and Proc. Roy. Soc. So. Austral. 32: 252-286. 1908.

Lists of species from Kangaroo Island, Flinders Island, Williams Island, Neptune Isles, Wedge Island, Thistle Island, Taylor Island, Revesby Island in Sir Joseph Banks Group, Althorpe Isles, and other localities, collected in 1907 by the author and others. The islands are near the mouth of Spencer Gulf, in southeastern South Australia.

Osborn, T. G. B. The ecology of Pearson Islands. (The flora and fauna of Nuyts Archipelago and the Investigator Group, no. 8.) Trans. and Proc. Roy. Soc. So. Austral. 47: 97-118. 1 fig. (map), pl. 4-9. 1923.

Physiography, climate, ecology, plant associations, soils; annotated tabular list of 52 vascular plants. (Southeast of Flinders Island, about 34° S. Lat., 134° E. Long.)

Notes on the vegetation of Flinders Island. (The flora and fauna of Nuyts Archipelago and the Investigator Group, no. 18.) Trans. and Proc. Roy. Soc. So. Austral. 49: 276-289. pl. 21-23. 1925.

Exploration, physiography, climate, soil, plant associations, general features of flora; tabular list of 108 vascular plants, with notes on habitat, etc.; bibliography. (33°43' S. Lat., 134°30' E. Long.)

A sketch of the ecology of Franklin Islands. (Flora and fauna of Nuyt's Archipelago no. 3.) Trans. and Proc. Roy. Soc. So. Austral. 46: 194-206. pl. 8-11. 1922.

Physiography, climate, general features of flora: list of phanerogams. The Franklin Islands are in 32°37' S. Lat., 133°39' E. Long.

Tate, Ralph. The botany of Kangaroo Island. Trans. and Proc. Roy. Soc. So. Austral. 6: 116-171. map. 1883.—A revision of the flora of Kangaroo Island . . . 1. c. 12: 62-66. 1889.

History, physiography, geology, soils, climate, botanical explorations, artificial influences on vegetation, general botanical features, phytogeography, etc.; annotated list of 415 vascular plants. The "Revision" contains additions and corrections bringing the total to 513 species.

List of some plants inhabiting the north-eastern part of the Lake Torrens basin. Trans. and Proc. Roy. Soc. So. Austral. 6: 100-106. 1883.

Geology, soils; list of vascular plants, with localities, collected by the author in 1883.

The natural history of the country around the head of the Great Australian Bight. Trans. and Proc. Phil. Soc. Adelaide, So. Austral. 1878/79: 94-128. pl. 4. 1879.

Includes (p. 118-124) general features of flora, annotated list of phanerogams. Refers mainly to Bunda Plateau, a name used by the author for the region in extreme southwestern South Australia from the head of the Great Australian Bight (about 131° E. Long.) to Wilson Bluff, on the boundary of Western Australia, north to Ooldea Water and Boundary Dam (about 29°20' S. Lat.).

On the geological and botanical features of southern Yorke-Peninsula, South Australia. Trans. and Proc. Roy. Soc. So. Austral. 13: 112-120. 1890.

Geology, general features of flora; list of 232 vascular plants; phytogeography.

Plants of the Lake Eyre basin. Trans. and Proc. Roy. Soc. So. Austral. 11: 85-100. 1889.

Plant geography, botanical explorations; list of 388 vascular plants, with localities.

Tepper, J. G. O. Die flora von Clarendon und umgegend (Süd-Australien). Bot. Centralbl. 63: 1-9, 33-39. 1895.

Topography, climate, general features of flora; list of 446 vascular plants collected by author, with flowering dates. (Southeastern part of South Australia, 12 miles south of Adelaide.)

Tepper, J. G. O. On the characteristics and distribution of the native and naturalised plants about Ardrossan, Yorke's Peninsula. Trans. and Proc. Roy. Soc. So. Austral. 3: 25-45. pl. 4 (fig. 1). 1880.—Appendix to the list of plants about Ardrossan. 1. c. 175-179. 1880.

Physiography, climate, general features of flora; list of 371 native and naturalized vascular plants, with local distribution indicated.

Wood, J. G. An analysis of the vegetation of Kangaroo Island and the adjacent peninsulas. Trans. and Proc. Roy. Soc. So. Austral. 54: 105-139. 3 fig. (maps). 1930.

Mainly ecological; includes tabular list of species of Kangaroo Island and Fleurieu, Eyre, and Yorke Peninsulas, with indication of localities; bibliography.

——— Floristics and ecology of the mallee. Trans. and Proc. Roy. Soc. So. Austral. 53: 359-378. 2 fig. (incl. map). 1929.

Climate, ecology and growth forms, bibliography; tabular list of about 600 spermatophytes, with indication of range. The "mallee" is a scrub formation; the area covered in this paper is mainly in southern South Australia, with adjacent parts of Victoria and New South Wales.

VICTORIA

See also Queensland (Francis); South Australia (Wood, Floristics and ecology of the mallee).

General

Ewart, A. J. Flora of Victoria. 1,257 p. 349 fig., col. pl. 22.5 cm. [Melbourne,] 1930.—Flora . . . additions and alterations. Victorian Nat. 53: 60-63. 1936.

Geology, climate, general features of flora, naturalized plants; annotated descriptive flora of vascular plants, with keys, local and general range.

——— and Sutton, C. S. Vernacular names of Victorian plants. Jour. Dept. Agr. Victoria 9: 383-390, 532-541. 1911; 10: 443-448, 567-572. 1912; 12: 82-91. 1914; 13: 487-493. 1915; 14: 55-58, 180-186, 240-243, 499-502. 1916. (Reprinted.)

Systematic tabular list, with "popular" names and brief notes on general appearance and uses.

——— and Tovey, J. R. The weeds, poison plants, and naturalized aliens of Victoria. viii, 110 p. 33 col. pl. 24.5 cm. Melbourne, 1909.

Annotated list of weeds and noxious plants; annotated alphabetical tabular list of naturalized plants.—See also Audas, J. W., and Morris, P. F. Supplement . . . 19 p. Melbourne, 1925.

Field Naturalists' Club of Victoria. A census of the plants of Victoria with their regional distribution and the vernacular names as adopted by the Plant Names Committee . . . 2d ed. xvi, 93 p. 2 maps. 17.5 cm. Melbourne, 1928. (1st ed., 1923.)—Supplement 1[-4]. Victorian Nat. 40: 147, 245. 1923-24; 42: 130-132. 1925; 48: 142-148. 1931.

Systematic list of vascular plants with English names and brief indication of local range; list of species erroneously recorded in Mueller's "Key"; alphabetical list of naturalized plants.

Maiden, J. H. Records of Victorian botanists. Victorian Nat. 25: 101-117. port. 1908.

Bibliography; alphabetical list of botanists and collectors with biographical information.

Mueller, Ferdinand von. Key to the system of Victorian plants . . . 2 v. 152 (1. e. 210) fig., map. 18 cm. Melbourne, 1885-88.

Vol. 1 (1887-88): descriptive flora of vascular plants in form of keys. Vol. 2 (1885): systematic list of species, with indication of local range; full-page figures with dissections.—See also his Supplement to the enumeration of Victorian plants, comprising the species added since Part II of the Key to the system of our native vegetation was published . . . Victorian Nat. 5: 14-16. 1888.

——— and Becker, Ludwig. Indigenous vegetable productions. In Report on the resources of the colony of Victoria. Trans. Phil. Inst. Victoria v. 4, app. 1, p. 21-30. 1860.

Running account of principal economic plants of Victoria.

Local

Adcock, G. H. Census of indigenous plants of the Geelong district. Geelong Nat. 6: 31-36. 1896. (Reprinted, 14 p.)

Unannotated list of vascular plants. (Southwestern coast.)

— List of plants from the Cape Otway forest. Arranged according to Baron von Mueller's "Key to the system of Victorian plants." Geelong Nat. 5 (1): 13-19. 1895.—Supplementary list . . . l. c. 5 (4): 18-19. 1896. (Reprinted 15, [2] p.)

Unannotated list of vascular plants. (Southwestern coast.)

Daley, Charles. Around Noojee. Victorian Nat. 41: 166-183. 1925.

General features of flora; list of vascular plants collected in October 1924. (North of Warragul, about 60 miles southeast of Melbourne.)

D'Alton, St. Eloy. The botany of the "Little Desert," Wimmera, Victoria. Victorian Nat. 30: 65-78. pl. 4 (map). 1913.

General features of flora; list of vascular plants, prepared by C. S. Sutton. (Northwestern Victoria.)

Ewart, A. J. Biological survey of Wilson's Promontory. Victorian Nat. 25: 142-149. pl. (map). 1909; 26: 129-137. 1910; 27: 178-180. 1911.

Includes alphabetical list of 600 vascular plants (including additions in 2d and 3d reports). The papers include "Botanical reports" by J. W. Audas.—See also Audas, J. W. Recent botanical investigations at Wilson's Promontory. l. c. 27: 208-214. 1911. (About 120 miles southeast of Melbourne.)

— The flora of the Victorian Alps. Victorian Nat. 27: 104-120. pl. 11 (map). 1910.

Physiography, bibliography; unannotated alphabetical list of 334 vascular plants, with reference to collector or recorder; general features of flora (by J. W. Audas).—See also Tadgell, A. J. A contribution to "The flora of the Victorian Alps." l. c. 38: 105-118. 1922. Includes 130 additions. (Southeastern Victoria.)

Hardy, A. D. The Mallee: Ouyen to Pinnaroo. Victorian Nat. 30: 148-167, 173-174. 2 pl., map. 1914.

Topography, general features of flora; unannotated list of vascular plants; bibliography. The Mallee country is defined as the northwest corner of Victoria bounded on the south by a line drawn from Swan Hill to the border of South Australia; it includes also adjacent New South Wales and South Australia.

Paton, D. J. The plants of the "Whipstick" scrub, Bendigo. Victorian Nat. 40: 189-204. map. 1924.

General features of flora; list of angiosperms, with flowering dates. "Whipstick" scrub is a name applied to a region with dense thickets of shrubby eucalypts entangled with vines.

Patton, R. T. List of vascular plants. In Lady Julia Percy Island. Reports of the expedition of the McCoy Society . . . Proc. Roy. Soc. Victoria 49: 362. 1937.

Annotated list of 32 species. Lady Julia Percy Island is a small volcanic island in Bass Strait, between Victoria and Tasmania.

Spencer, Baldwin, and French, Charles. Trip to Croajingolong. Victorian Nat. 6: 1-38. 5 pl., map. 1889.

Includes, besides a running account of plants seen, general notes on flora and list of rarer species collected by authors. (Southeasternmost Victoria.)

Stirling, James. Notes on a census of the flora of the Australian Alps. Trans. and Proc. Bot. Soc. Edinb. 22: 319-395. 3 pl., map. 1904.

Physiography, general features of flora with notes on economic plants; list of 1,019 vascular and cellular plants, with local range, mention of States other than Victoria in which the species occur, and altitude reached. (Southeastern Victoria and adjacent New South Wales.)

— Notes on the flora of Mount Hotham. Victorian Nat. 4: 72-78. 1887.

History, topography, geology, general features of flora; list of spermatophytes collected by author. (In the Australian Alps, about 70 miles north of Bairnsdale.)

— Notes on the physiography of the western portion of the County of Croajingolong. Proc. Roy. Soc. Victoria n. s., 1: 80-108. pl. 1889.

Includes (p. 93-103) list of vascular plants, with localities. (Southeastern-most Victoria.)

Stirling, James. The phanerogamia of the Mitta Mitta source basin and their habitats. *Trans. and Proc. Roy. Soc. Victoria* 19: 1-23. 1883; 21: 29-51. 1885.

Physiography, etc.; annotated list of spermatophytes. (In the Australian Alps not far from New South Wales.)

Sullivan, David. A complete census of the flora of the Gramplains and Pyrenees. *Rpt. Australas. Assoc. Adv. Sci.* 2 (1890): 497-525. 1890.

General features of flora; list of 708 vascular and cellular plants, with localities.—See also Campbell, A. G. A census of Grampian plants. *Victorian Nat.* 28: 105-111. 1911. (Botanical explorations, physiography, geology, general features of flora; list of 136 species additional to Sullivan's list.) (South-western Victoria.)

Sutton, C. S. Notes on the Sandringham flora. *Victorian Nat.* 28: 5-20. 1911.—Supplementary notes . . . 1. c. 29: 79-96. map. 1912.

General features of flora, plant associations; list of 460 vascular plants (including supplement), with indication of local habitat. (About 15 miles south of Melbourne.)

—— A sketch of the Keilor Plains flora. *Victorian Nat.* 33: 112-123, 128-143. 1 fig. (map). 1916-1917.

Geology, climate, soil, plant associations, endemic species; partly annotated list of 444 vascular plants. (The region covered has a radius of about 30 miles around Melbourne.)

Tadgell, A. J. Mount Bogong and its flora. *Victorian Nat.* 41: 56-80. 1 fig. (map). 1924.

Includes (p. 72-79) alphabetical list of about 269 vascular plants, with altitudes; also list of 24 cellular plants. (In the Australian Alps, about 50 miles from the New South Wales line.)

Tisdall, H. T. List of plants growing in the neighborhood of Walhalla, with remarks. In Herman, Hyman. Report on the Walhalla gold-field. (Special reports. Dept. of mines, Victoria.) p. 59-64. Melbourne, 1901.

Partly annotated list of spermatophytes, without authorities for botanical names. (Southern part of Victoria, about 80 miles east of Melbourne.)

Tovey, J. R. Some notes on Coode Island and its flora. *Victorian Nat.* 28: 57-61. 1911.

Running account of vascular plants observed by author. (Mouth of Yarra River, near Melbourne.)

Zimmer, W. J. The flora of the far north-west of Victoria. Its distribution in relation to soil types, and its value in the prevention of soil erosion. 86 p. 6 pl. 26 cm. [Melbourne,] 1937.

Mainly ecological; includes (p. 73-86) unannotated list of 402 vascular plants in area between the Murray River on the north, the South Australian border on the west, a line east from the South Australian border to Hattah, and thence easterly to the Murray River at Wemen. (Processed publication.)

WESTERN AUSTRALIA

See also Northern Territory (Mueller).

General

Alexander, W. B., Lane-Poole, C. E., and Herbert, D. A. Lists of the principal indigenous West Australian plants of economic importance and of naturalised aliens and weeds established in the state, with their vernacular names. *Jour. and Proc. Roy. Soc. West. Austral.* 6: 41-46. 1920.

Tabular list of botanical names, with vernacular names and brief notes on uses; list of naturalized plants.

Fitzgerald, W. V. Trees of Western Australia, with notes on their uses and distribution. *Jour. and Proc. Mueller Bot. Soc. West. Austral.* 1 (11): 1-78. 1903.

Life zones; annotated list, with brief descriptions, and notes on timber and other uses.

Gardner, C. A. *Enumeratio plantarum Australiae occidentalis*. A systematic census of the plants occurring in Western Australia. iv, 150 p. 24.5 cm. Perth, 1931.

Unannotated list of vascular plants, with references to original descriptions; includes naturalized plants. Originally started as supplement to Jour. Dept. Agr. West. Austral. s. 2, v. 7.

Maiden, J. H. Records of Western Australian botanists. Jour. West. Austral. Nat. Hist. Soc. [2] (6) : 5-27. 1909.

Bibliography; alphabetical list of botanists, with biographical information.

Local

Diels, Ludwig. Die pflanzenwelt von West-Australien südlich des Wendekreises. Mit einer einleitung über die pflanzenwelt gesamt-Australiens in grundzügen. xii, 413 p. 82 fig. (incl. maps), 34 pl., map. 25.5 cm. Leipzig, 1906. (Die vegetation der erde, v. 7.)

Mainly ecological and phytogeographical; includes (p. 41-73) sketch of botanical explorations and bibliography.

— and Pritzel, Ernst. Fragmenta phytographiae Australiae occidentalis. Beiträge zur kenntnis der pflanzen Westaustraliens, ihrer verbreitung und ihrer lebens-verhältnisse. Bot. Jahrb. Engler 35: 55-662. 70 fig. 1904-05.

Records and critical notes on many species, mainly from the authors' collections in extratropical Western Australia in 1900-01.

Domin, Karel. Additions to the flora of Western and north-western Australia. Jour. Linn. Soc. Bot. 41: 245-283. pl. 10-13. 1912.—New additions to the flora of Western Australia. Věstník K. České Společn. Nák Třída Mat. Přír. (Mém. Soc. Roy. Sci. Bohème Cl. Sci.) 1921/22. no. 2. 125 p. 1923.

(1912) New species and critical notes covering Pteridophyta, Monocotyledones, and Casuarinaceae, based mainly on collections by Dr. E. Clement and Capt. A. A. Dorrien-Smith; bibliography. (1923) List of additions covering the Dicotyledons, with references and critical notes. (Southwestern part of Western Australia and region between Ashburton and De Gray Rivers.)

Fitzgerald, W. V. The botany of the Kimberleys, north-west Australia. Jour. and Proc. Roy. Soc. West. Austral. 3: 102-224. 1918.

Physiography; annotated list of 676 vascular plants. (About 26° S. Lat., 120° E. Long.)

Gardner, C. A. Botanical notes. Kimberley division of Western Australia. Forests Dept. Bul. West. Austral. 32. 105 p. 18 pl., map. 1923.

Physiography, climate, general features of vegetation, plant formations; annotated list of vascular plants collected on Kimberley Exploration Expedition of 1921. (Northwestern Western Australia.)

— List of the naturalized plants of extra-tropical Western Australia. Jour. and Proc. Roy. Soc. West. Austral. 11: 69-80. 1925.

Partly annotated systematic list of 237 plants, with native habitat; refers only to the region lying south of 26° S. Lat.

Maiden, J. H. Notes on Acacia, no. II. Tropical Western Australia. Jour. and Proc. Roy. Soc. N. S. Wales 51: 71-124. pl. 1-4. 1917.

Consists of an annotated list of 23 papers or collections bearing on botany of the "Nor-West," each so extensively annotated with reference to the acacias dealt with that the bibliography is difficult to follow. (Coastal region from about Tropic of Capricorn north to boundary of Northern Territory.)

Moore, S. Le M. The botanical results of a journey into the interior of Western Australia; with some observations on the nature and relations of the desert flora. Jour. Linn. Soc. Bot. 34: 171-261. 1890.

General features of flora; annotated list of vascular plants collected by author in 1894-95, with localities; statistics of Western Australian desert flora (said to number 867 species), phytogeography, homoplasy. (South-central Western Australia, mostly between Southern Cross and Mount Margaret, near Lake Carey.)

Morrison, Alexander. The vegetation of Western Australia. West. Austral. Yearbook 1900/01: 298-341. 1902.

General features of flora; unannotated list of extratropical Western Australian plants. List based on one published by Mueller in 1896, brought up to date by Morrison.

Mueller, Ferdinand von. Observations on plants, collected during Mr. Joseph Bradshaw's expedition to the Prince Regent's River. Proc. Linn. Soc. N. S. Wales II, 6: 457-478. 1892.

List of vascular plants, with localities and occasional annotations; based on material collected by W. T. Allen between Cambridge Gulf and Prince Regent's River, in northernmost Western Australia.

Mueller, Ferdinand von. The plants indigenous around Sharks Bay and its vicinity, chiefly from the collections of the Honorable John Forrest. 24 p. 33.5 cm. Perth, 1883.

Botanical explorations; list of vascular plants, with localities and occasional annotations. (On the west coast at about 26° S. Lat.)

——— Plants of north-western Australia. 19 p. 33.5 cm. Perth. 1881.

Botanical explorations; list of phanerogams, with localities and occasional annotations, based on plants collected by John Forrest's trigonometrical survey of the Nickol Bay district in 1878, and his expedition in 1879 between Nickol Bay and King's Sound. (Nickol Bay is in 20°35' S. Lat., 116°50' E. Long., King's Sound 16°50' S. Lat., 123°20' E. Long.)

——— and Tate, Ralph. Botany [of the Elder exploring expedition] (phanerogams and vascular cryptogams). Trans. and Proc. Roy. Soc. So. Austral. 16: 333-383. 1896.

List of about 700 species, with localities, collected between Warrina, South Australia, and the Murchison district of Western Australia. (Central and northern South Australia and southern Western Australia.)

Ostenfeld, Carl. Additions and notes to the flora of extra-tropical W. Australia. His Contributions to West Australian botany III. Biol. Meddel. K. Danske Vidensk. Selsk. v. 3, no. 2. 144 p. 19 fig., 12 pl. 1921.

Partly annotated list of vascular plants collected by author in 1914.

Tepper, J. G. O. The flora of Roebuck Bay, West Australia. Trans. and Proc. Roy. Soc. So. Austral. 17: 13-20. 1893.

Physiography, climate, etc.; list of 143 vascular plants collected by J. W. O. Tepper in 1889-91. Roebuck Bay, also known as Port Broome, is in about 18° S. Lat., 122° E. Long.—German translation in Bot. Centralbl. 54: 257-261. 1893.

NEW ZEALAND

Allan, H. H. New Zealand trees and shrubs and how to identify them. x, 188 p. plates. 19 cm. Auckland, [1928].

Popular treatment in form of artificial key with brief descriptions, the species not in systematic order.

Andersen, J. C. Popular names of New Zealand plants. Trans. and Proc. New Zeal. Inst. 56: 659-714. 1926; 57: 905-977. 1927.

Principles of popular nomenclature; list of Maori and English vernacular names, under alphabetically arranged scientific names; (pt. 2) alphabetical list of vernacular names with botanical equivalents and reference to authorities for use; bibliography.

Cheeseman, T. F. Catalogue of the plants of New Zealand, including both indigenous and naturalised species. 33 p. 24.5 cm. Wellington, 1906.

List of 1,571 native and 527 naturalized vascular plants, with general distribution in area indicated; based on 1906 edition of the author's Manual.

——— Manual of the New Zealand flora. 2d ed., rev. and enl. by the author. Ed. by W. R. B. Oliver. xliv, 1163 p. 24 cm. Wellington, 1925. (1st ed., 1906.)

History of botanical explorations, with mention of chief publications (continued for 1905-24 by Oliver); list of publications of Cheeseman; descriptive flora of vascular plants (1,763 species), with keys, references, synonymy, local and general range; annotated list of 576 naturalized plants, list of Maori vernacular names, glossary.

——— and Hemsley, W. B. Illustrations of the New Zealand flora. 2 v. 250 (i. e., 251) pl. 32 cm. Wellington, 1914.

Excellent plates of characteristic plants; the text relates mainly to history, range, and habitat of the species described. The work is intended to accompany Cheeseman's Manual. A systematic list of previously published illustrations of the New Zealand flora is given in vol. 2.

Cockayne, Leonard. Report on the dune-areas of New Zealand, their geology, botany, and reclamation. 76 p. 14 pl. 33.5 cm. Wellington, 1911.

Mainly ecological and geological; includes (p. 33-34) table showing distribution, range, vernacular names, etc., of 147 vascular plants, followed by list of naturalized plants; bibliography.

Cockayne, Leonard. The vegetation of New Zealand. 2d ed., almost entirely rewritten, thoroughly rev., and enl. xxvi, 456 p. 87 pl., 3 maps. 25 cm. Leipzig, 1928. (Die vegetation der erde, v. 14.) (1st ed., 1921.)

Botanical explorations, with mention of principal publications; bibliography; physiography, ecology, agriculture, phytogeography, statistics, etc.

— and Allan, H. H. An annotated list of groups of wild hybrids in the New Zealand flora. *Annals Bot.* 48: 1-55. 1934.

List of 491 known or supposed hybrids; bibliography.

— and Turner, E. P. The trees of New Zealand. 171 p. 118 fig. 21 cm. Wellington, 1928.

General matter; descriptions and photographs of 106 trees with vernacular names, alphabetically arranged by scientific name; additional descriptive list of shrubby plants; annotated list of timbers.

Colenso, William. On the vegetable food of the ancient New Zealanders before Cook's visit. *Trans. and Proc. New Zeal. Inst.* 13: 3-38. 1881.

Includes descriptive account of useful plants, both wild and cultivated.

Hamilton, Augustus. List of papers and notices on botanical subjects in the "Transactions of the New Zealand Institute" and other publications. *Trans. and Proc. New Zeal. Inst.* 36: 342-372. 1904.

Alphabetically arranged by authors, the papers of each author in chronological order.

Hooker, J. D. *Flora Novae-Zelandiae*. 2 v. 130 col. pl. 32.5 cm. London, 1853 (1852)-55. (The botany of the Antarctic voyage of H. M. discovery ships *Erebus* and *Terror*, in the years 1839-1843 . . . pt. II.)

Botanical explorations, origin of flora, phytogeography; annotated descriptive flora, with vernacular names. Vol. 1, phanerogams; vol. 2, cryptogams, supplement, index.

— Handbook of the New Zealand flora; a systematic description of the native plants of New Zealand and the Chatham, Kermadec's, Lord Auckland's, Campbell's and Macquarrie's Islands. 2 v. 21.5 cm. London, 1864-67.

Descriptive flora, with local and general range, and uses. Vol. 1 contains vascular plants, v. 2 cellular.

Kirk, Thomas. The forest flora of New Zealand. xv, 345 p. 142 pl. 34 cm. Wellington, 1889.

Descriptive account of economic trees and shrubs, with history, range, uses, Maori names, classified list of most important woods; synopsis of classification; glossaries.

— The students' flora of New Zealand and the outlying islands. vi, 408 p. 25 cm. Wellington, [1899].

Descriptive flora, with keys, synonymy, local and general range; English vernacular names, glossary. Incomplete (Ranunculaceae-Compositae).

Laing, R. M., and Blackwell, E. W. Plants of New Zealand. 3d ed., rev. and enl. xv, 468 p. (incl. front., 173 [i. e. 174] fig.). 22.5 cm. Auckland [etc.], 1927.

General features of flora, phytogeography, etc.; key to families, descriptive flora (very incomplete); glossary. The illustrations are practically all from photographs of living specimens.

Thomson, G. M. The naturalisation of animals and plants in New Zealand. x, 607 p. map. 24.5 cm. Cambridge, Engl., 1922.

Includes (p. 363-501) annotated list of introduced vascular plants (over 600 of which have become naturalized), with details of first records, etc.; also chapter on "Alteration in flora since European occupation of New Zealand" (p. 517-535).

NORTH ISLAND

See also South Island (Buchanan, Botanical notes).

Adams, James. On the botany of Hikurangi Mountain. *Trans. and Proc. New Zeal. Inst.* 30: 414-433. 1898.

General features of flora; list of vascular plants collected by D. Petrie and the author on Mount Hikurangi, in the Raukumara Range, and in the East Cape district, with localities.

— On the botany of Te Aroha Mountain. *Trans. and Proc. New Zeal. Inst.* 17: 275-287. 1885.

Physiography, general features of flora; annotated list of vascular plants. (Provincial district of Auckland.)

Allan, H. H., and Dalrymple, K. W. Ferns and flowering-plants of Mayor Island, N. Z. Trans. and Proc. New Zeal. Inst. 56: 34-36. pl. 5. 1926.

Physiography, general features of flora, etc.; list of 98 species and varieties of vascular plants. (Off the southeast coast of the provincial district of Auckland.)

Aston, B. C. Botanical notes made on a journey across the Tararuas. Trans. and Proc. New Zeal. Inst. 42: 13-25. 1 fig. (map), pl. 1-7. 1910.

Physiography, general features of flora; unannotated list of plants seen in the valley of the Pakuratahi; list of additions to Petrie's flora of the Tararuas (1908), with localities. (About 40 miles northeast of Wellington.)

—— List of phanerogamic plants indigenous in the Wellington Province. Trans. and Proc. New Zeal. Inst. 43: 225-247. 1911.

Annotated list of about 680 phanerogams, showing altitudinal range.

—— Notes on the phanerogamic flora of the Ruahine Mountain-chain, with a list of the plants observed thereon. Trans. and Proc. New Zeal. Inst. 46: 40-54. 1 fig. (map). 1914.

General features of flora; annotated list of phanerogams, showing altitudinal range; brief bibliography.—For additions, see his Indigenous plants of the Ruahine and Kaimanawa Mountains. l. c. 47: 68-70. 1915. (Along the boundary between the provincial districts of Wellington and Hawkes Bay.)

—— The vegetation of the Tarawera Mountains, New Zealand. Trans. and Proc. New Zeal. Inst. 48: 304-314. pl. 19-22. 1916.

Includes list of plants collected in 1913 and later on Tarawera Mountains; bibliography. The vegetation of that region was nearly or quite completely destroyed by a volcanic eruption in 1886. (On eastern side of Lake Tarawera, in provincial district of Auckland, about 38°12' S Lat., 176°26' E. Long.)

Buchanan, John. List of plants found on Miramar Peninsula, Wellington Harbour. Trans. and Proc. New Zeal. Inst. 5: 349-352. 1873.

General features of flora; list of species, arranged in ecological groups.

—— Notes on the botany of Mount Egmont and neighbourhood, New Zealand, February, 1867. Jour. Linn. Soc. Bot. 10: 57-62. 1869 (1867). (Reprinted in his Botanical notes on the Kaikoura Mountains and Mount Egmont. p. 10-16. 1867.)

General features of flora, etc.; unannotated list of vascular plants. (Provincial district of Taranaki, on southwest coast.)

—— On the botany of Kawau Island: physical features and causes influencing the distribution of species. Trans. and Proc. New Zeal. Inst. 9: 503-527. 1877.

Physiography, geology, general features of flora, plant formations; unannotated lists of indigenous and introduced vascular plants. (In Hauraki Gulf, 27 miles north of Auckland.)

—— and Kirk, Thomas. List of plants found in the northern district of the Province of Auckland. Trans. and Proc. New Zeal. Inst. 2: 239-247. 1870.

General features of flora; list of vascular plants, with indication of local distribution.—See also Kirk, T. On the botany of the northern part of the Province of Auckland. l. c. 3: 166-177. 1871.

Carse, Harry. On the flora of the Mangonui County. Trans. and Proc. New Zeal. Inst. 43: 194-224. 1 fig. (map). 1911.—On some additions . . . l. c. 45: 276-277. 1913.—The ferns and fern allies . . . l. c. 47: 76-93. 1915.—Some further additions . . . l. c. 48: 237-243. 1916.

Botanical explorations, physiography, plant formations; annotated list of 538 vascular plants. (Near the north end of North Island.)

—— On the flora of the Mauku district. Trans. and Proc. New Zeal. Inst. 34: 362-386. 1902.

General features of flora; list of 405 vascular plants, with localities. (Lower middle part of peninsula of Auckland.)

Cheeseman, T. F. Notes on the Three Kings Islands. Trans. and Proc. New Zeal. Inst. 20: 141-150. 1888.—Further notes . . . l. c. 23: 408-424. pl. 37-38 (37, map). 1891.

(1888) Physiography, general features of flora, history; unannotated list of 82 vascular plants. (1891) Similar notes, including ornithology; unannotated list of 143 vascular plants. (Northwest of North Cape, in 34°9' S. Lat., 172°8' E. Long.)

Cheeseman, T. F. On the botany of the Titirangi district of the Province of Auckland. *Trans. and Proc. New Zeal. Inst.* 4: 270-284. 1872.

General features of flora; critical notes on several species; unannotated lists of about 460 native and 110 naturalized vascular plants. (About 10 miles southwest of Auckland.)

——— On the flora of the North Cape district. *Trans. and Proc. New Zeal. Inst.* 29: 333-385. pl. 23 (map). 1897.

Botanical explorations (with included bibliography), physiography, general features of flora; annotated list of vascular plants observed between Mangonui (Mongonui) and North Cape.

Cockayne, Leonard. Notes on a brief botanical visit to the Poor Knights Islands. *Trans. and Proc. New Zeal. Inst.* 38: 351-360. 1906.

Physiography, plant formations; list of vascular plants. (Off the east coast of Auckland provincial district, 35°29' S. Lat., 174°23' E. Long.)

——— Report on a botanical survey of Kapiti Island. 23 p. 8 pl., map. 33 cm. Wellington, 1907.

Physiography, climate, plant formations, affinities of flora; tabular list of indigenous vascular plants, showing vernacular names, general and local range; list of introduced species.—For additions see Aston, B. C. Plant habitats hitherto unrecorded. *Trans. and Proc. New Zeal. Inst.* 47: 67-68. 1915. (Off the west coast about 30 miles north of Wellington.)

——— Report on a botanical survey of the Tongariro National Park. 42 p. 16 pl., map. 33 cm. Wellington, 1908.

History, climate, geology, ecology, fauna, etc.; table of 260 indigenous vascular plants, showing vernacular names, local and general range; bibliography. (Extreme northern Wellington provincial district.)

——— Report on a botanical survey of the Waipoua kauri forest. 44 p. 10 pl., map. 33 cm. Wellington, 1908.

Physiography, climate, plant formations, ecology, etc.; table of indigenous vascular plants, showing vernacular names, local and general range, and "life-form"; bibliography. (Northwest part of North Island, near Hokianga Harbor.)

Colenso, William. On the botany, geographic and oeconomic, of the North Island of the New Zealand group. *Trans. and Proc. New Zeal. Inst.* v. 1, pt. 3, [art. 3]. 58 p. 1869.

Includes (p. 29-58) sketch of economic plants with uses and vernacular names. Half title: On the botany of the North Island of New Zealand.

Cranwell, L. M., and Moore, L. B. Botanical notes on the Hen and Chicken Islands. *Rec. Auckland Inst. and Mus.* 1: 301-318. 2 fig. (maps), pl. 73. 1935.

Topography, geology, climate, animal life, plant communities, phytogeography; list of cellular and vascular plants (263 vascular); bibliography. (Off the northeast coast of Auckland, 35°58' S. Lat., 174°45' E. Long.)

——— and Moore, L. B. The vegetation of Maungapohatu. *Rec. Auckland Inst. and Mus.* 1: 71-80. 1931.

Physiography, general features of flora; annotated list of cellular and vascular plants collected in March 1930. Maungapohatu is a mountain, not previously studied botanically, in the Urewera country, East Cape botanical district.

Hamilton, W. M. The Little Barrier Island. *Hauturu. New Zeal. Jour. Sci. and Technol.* 17: 465-495, 717-749. illus. (incl. maps). 1935-36; 18: 557-578. illus. 1936. (Reprinted as *Bul. Dept. Scient. and Ind. Res. New Zeal.* no. 54. 1937.)

History, geology, soils, climate, plant associations, bibliography, etc.; tabular annotated list of native (351 species) and introduced spermatophytes, also bryophytes. (West of Great Barrier Island, near the mouth of Hauraki Gulf.)

Kirk, Thomas. Notes on the botany of the East Cape district. *Trans. and Proc. New Zeal. Inst.* 29: 509-532. 1897.

Botanical explorations, physiography, general features of flora; partly annotated list of about 500 vascular plants.

——— Notes on the botany of Waiheke, Rangitoto, and other islands in the Hauraki Gulf. *Trans. and Proc. New Zeal. Inst.* 11: 444-454. 1879.

Physiography, general features of flora; list of vascular plants from Rangitoto Island.

Kirk, Thomas. On the botany of the Great Barrier Island. Trans. and Proc. New Zeal. Inst. 1: 144-157. 1869.

General features of flora; critical notes on some species; unannotated lists of native and naturalized vascular plants (about 400 species); also lists of plants from Little Barrier Island and Kororariki, Bay of Islands. (Off the central and northern part of the east coast, provincial district of Auckland.)

——— On the botany of the Thames gold-fields. Trans. and Proc. New Zeal. Inst. 2: 89-100. 1870.

General features of flora; list of 397 vascular plants, arranged by ecological groups.—For additions see Adams, J. (same title) l. c. 16: 385-393. 1884. (Central eastern coast of Auckland provincial district.)

——— On the flora of the Isthmus of Auckland and the Takapuna district. Pt. 1. Trans. and Proc. New Zeal. Inst. 3: 148-161. 1871.

General features of flora; unannotated lists of native (about 800 species) and naturalized vascular plants. Pt. 2 (l. c. 4: 228-238. 1872) relates to cellular plants. (Vicinity of Auckland city and the Takapuna region immediately north of it across Waitemata Harbor.)

——— On the naturalized plants of Port Nicholson and the adjacent district. Trans. and Proc. New Zeal. Inst. 10: 362-378. 1878.

General factors of introduction; annotated list. (Province of Wellington.)

Oliver, W. R. B. Vegetation of Poor Knights Islands. New Zeal. Jour. Sci. and Techn. 7: 376-384. 3 fig. 1925.

Geology, destruction of flora by pigs, general features of flora, with mention of many species; no list.—See also Cranwell, L. M. New plant records from the Poor Knights Islands . . . Rec. Auckland Inst. and Mus. 2: 101-110. 2 fig. (maps), pl. 25-26. 1937. (Off the east coast of Auckland provincial district, 35°29' S. Lat., 174°23' E. Long.)

——— The vegetation of White Island, New Zealand. Jour. Linn. Soc. Bot. 43: 41-47. 2 fig., pl. 2-3. 1915.

Physiography, geology, climate, bird life, plant formations; annotated list of 12 vascular plants. White Island is a small volcanic cone, with an atmosphere charged with hydrochloric acid from Whakari Volcano.

Petrie, Donald. Account of a visit to Mount Hector, a high peak of the Tararuas, with list of flowering-plants. Trans. and Proc. New Zeal. Inst. 40: 289-304. 1908.

Physiography, general features of flora; list of phanerogams "hitherto observed on the higher parts of the Tararuas" with altitudes. (About 30 miles northeast of Wellington.)

Sladden, Bernard. Kārewa: an island sanctuary. New Zeal. Jour. Sci. and Technol. 7: 182-187. 3 fig. 1924.

Topography, fauna; running account of plants, with vernacular names. (In entrance of Tauranga Harbor, Province of Auckland.)

——— Tuhua, or Mayor Island. New Zeal. Jour. Sci. and Technol. 8: 193-210. 5 fig. (incl. map). 1926.

History, topography, general features of flora; list of vascular plants; notes on fauna. (Off the southeast coast of the provincial district of Auckland.)

——— and Falla, R. A. Alderman Islands. A general description, with notes on the flora and fauna. New Zeal. Jour. Sci. and Technol. 9: 193-205. 4 fig. (incl. map). 1927.

History, physiography, plant formations; list of vascular plants. The second part (p. 282-290) is entirely zoological. (Off east coast of Auckland provincial district, 36°58' S. Lat., 176°5' E. Long.)

Wall, Arnold, and Cranwell, L. M. The botany of Auckland. 47 p. illus. (incl. map). 23 cm. Auckland, 1936.

Vegetation of special localities, etc.; tabular list of 559 vascular plants, with habitat, vernacular names, and occasional localities. Reprinted from the New Zealand Herald. (Vicinity of city of Auckland.)

Zotov, V. D., and others. An outline of the vegetation and flora of the Tararua Mountains. Trans. and Proc. Roy. Soc. New Zeal. 68: 259-324. pl. 27-33, 2 maps, tab. 1938.

Mainly ecological; includes (p. 290-310) annotated list of vascular plants by V. D. Zotov, N. L. Elder, and A. D. Beddie, also lists of mosses and hepatics; bibliography. (About 40 miles northeast of Wellington.)

SOUTH ISLAND

The following publication has not been available:

Dunedin Field Club. Catalogues of the indigenous and introduced flowering plants, ferns and seaweeds, occurring in the Dunedin district. Dunedin, 1896. (Cited from Cockayne, L. The vegetation of New Zealand. 1921. p. 15.)—See also Aston, B. C. List of plants supplementary to the Dunedin Field Club's Catalogue . . . Trans. and Proc. New Zeal. Inst. 31: 747. 1898.

Anonymous. [List of trees and shrubs found in the Province of Otago.] In New Zealand Exhibition, 1865. Reports and awards . . . p. 267-275. Dunedin, 1866.

Briefly annotated list with vernacular names, the plants classified by uses.

Armstrong, J. B. A short sketch of the flora of the Province of Canterbury, with catalogue of species. Trans. and Proc. New Zeal. Inst. 12: 325-353. 1880.

Botanical districts, forage plants, weeds, economic plants, etc.; list of 857 vascular plants, with general distribution in area indicated; also cellular plants, and list of naturalized plants additional to that in same journal, v. 4, p. 284.

Armstrong, J. F. On the naturalized plants of the Province of Canterbury. Trans. and Proc. New Zeal. Inst. 4: 284-290. 1872.

General features of occurrence of introduced plants; list of 171 species. For additions see vol. 12, p. 353.

Aston, B. C. The botany of Tapu-ae-nuku, New Zealand. Bul. Misc. Inform. Kew 1916: 182-184. 1916.

Account of an ascent of Mount Tapu-ae-nuku, the highest point in the northern part of South Island (9,467 ft.), with mention of plants found. (Province of Marlborough.)

Buchanan, John. Notes on the botany of the Province of Marlborough, made during a visit there in the months of November, December, and January, 1866-67. Jour. Linn. Soc. Bot. 10: 63-68. 1869 (1867-68). (Reprinted in his Botanical notes on the Kaikoura Mountains and Mount Egmont. 1867. p. 3-10.)

General features of flora, etc.; unannotated list of vascular plants.

Sketch of the botany of Otago. Trans. and Proc. New Zeal. Inst. 1 (3): 22-53. 1869.

General features of flora; annotated list of more conspicuous or useful plants; tabular list of vascular plants, with vernacular names and general features of distribution.

Cheeseman, T. F. Contributions to a flora of the Nelson Provincial district. Trans. and Proc. New Zeal. Inst. 14: 301-329. 1882.

Annotated list of 666 vascular plants.—For annotated supplementary list, see Kirk, T. Additional contributions to the flora . . . l. c. 18: 318-324. 1886. (Northwestern part of South Island.)

Cockayne, Leonard. List of plants from the Franz Josef Glacier to the coastline. In Bell, J. M. A geographical report on the Franz Josef Glacier . . . p. 11-14. Wellington, 1910.

Unannotated list of vascular plants (356 species including the additions).—See also his Additional species for the neighbourhood of the Franz Josef Glacier from the sea to about 1,200 m. altitude, with his List of species of Omeroa Saddle (Some hitherto-unrecorded plant habitats VII). Trans. and Proc. New Zeal. Inst. 44: 55-59. 1912. (In Southern Alps, near the center of eastern boundary of Westland.)

Notes on the vegetation of the Open Bay Islands. Trans. and Proc. New Zeal. Inst. 37: 368-377. pl. 23. 1905.

Physiography, soil, plant zones; list of vascular plants. The Open Bay Islands are two small islets in the Tasman Sea, 3 miles from the shore of south Westland, nearly opposite the mouth of the Okuru River.

On a collection of plants from the Solanders. Trans. and Proc. New Zeal. Inst. 41: 404-405. 1909.

List of 19 vascular plants collected by Capt. J. Bollons in 1908. (About 23 miles south of southwest end of South Island.)

Report of a botanical survey of Stewart Island. 68 p. 9 pl., map. 33 cm. Wellington, 1909.

History, botanical explorations, physiography, climate, ecology, plant formations, phytogeography, bird life, etc.; table showing local and general range, vernacular names, etc., of indigenous vascular plants; list of introduced plants; bibliography. (Large island just south of South Island.)

Hamilton, Augustus. List of plants collected in the district of Okarito, Westland. Trans. and Proc. New Zeal. Inst. 11: 435-438. 1879.

Unannotated list of vascular plants collected by author in 1877.—See also Kirk, T. Notes on Mr. Hamilton's collection . . . l. c. 439-444.

Kirk, Thomas. On the botany of the Bluff Hill. Trans. and Proc. New Zeal. Inst. 10: 400-406. 1878.

General features of flora; unannotated list of vascular plants observed by author on January 1, 1877. (Southeastern coast of Southland.)

— On the flowering plants of Stewart Island. Trans. and Proc. New Zeal. Inst. 17: 213-228. 1885.

Botanical explorations, physiography, geology, general features of flora, special notes on endemic or rarer species; no list of flora (said to be about 450 species). The paper is followed by "On the ferns and fern allies of Stewart Island," p. 228-234, by the same author, an annotated list. (Large island just south of South Island.)

Laing, R. M. Some notes on the botany of the Spenser Mountains, with a list of the species collected. Trans. and Proc. New Zeal. Inst. 44: 60-75. 1912.

History, topography, general features of flora, etc.; unannotated list of vascular plants. (In Southern Alps, on border between provincial districts of Canterbury and Nelson.)

— The vegetation of Banks Peninsula, with a list of species (flowering-plants and ferns). Trans. and Proc. New Zeal. Inst. 51: 355-408. 1 fig. (map). 1919.—Supplement 1. l. c. 55: 438-444. 1 fig. 1924.

Physiography, climate, agents altering plant-distribution, plant associations, phytogeography, bibliography; annotated list of indigenous vascular plants. (Southeast of Christchurch.)

— and Oliver, W. R. B. Vegetation of the upper Bealey River basin, with a list of the species. Trans. and Proc. New Zeal. Inst. 59: 715-730. 1929.—Vegetation of the Bealey River basin. Supplement to list of species (1929), with notes. l. c. 64: 1-10. pl. 1. 1934.

General features of flora, plant formations; annotated list of vascular plants. H. W. Gourlay, joint author of supplement. (In vicinity of Mount Rolleston in Southern Alps, Province of Canterbury.)

Lindsay, W. L. Contributions to New Zealand botany. 102 p. 28.5 cm. London and Edinburgh, 1868.

Botanical explorations, climate, physiography, geology, etc.; unannotated list of vascular and cellular plants; critical notes on various species; index of Maori names, etc. The area covered is the Province of Otago.

Petrie, Donald. List of the flowering plants indigenous to Otago, with indications of their distribution and range in altitude. Trans. and Proc. New Zeal. Inst. 28: 540-591. 1896.—Supplement . . . l. c. 29: 421-422. 1897.

Annotated list of phanerogams collected by the author in Otago and on Stewart Island; list of species reported by others.—For additions and corrections, with sketch of botanical explorations, see Kirk, T. On the history of botany in Otago. l. c. 29: 532-540. 1897; also Aston, B. C. l. c. 31: 747. 1899.

— A visit to Stewart Island, with notes on its flora. Trans. and Proc. New Zeal. Inst. 13: 323-332. 1881.

Physiography, general features of flora; list of phanerogams collected by author and G. M. Thomson in January 1880. The paper refers only to the region of Paterson's Inlet and near Port Pegasus. (Large island just south of South Island.)

Poppelwell, D. L. Botanical results of an excursion to the Upper Makarora Valley and the Haast Pass, supported by a list of the species observed. Trans. and Proc. New Zeal. Inst. 49: 161-166. 1917.

Unannotated list of vascular plants collected by author and others in December 1915. (Along border between provincial districts of Westland and Otago.)

— Notes of a botanical excursion to Bunkers Island (Stewart Island). Trans. and Proc. New Zeal. Inst. 50: 154-157. 1918.

Geology, plant formations; unannotated list of 75 vascular plants. (Off northeast coast of Stewart Island.)

Poppelwell, D. L. Notes of a botanical excursion to Long Island, near Stewart Island, including a list of species. Trans. and Proc. New Zeal. Inst. 49: 167-171. 1917.

Physiography, ecology, plant formations; list of 75 vascular plants. (Off southwest coast of Stewart Island.)

Notes of a botanical excursion to northern portion of the Eyre Mountains. Trans. and Proc. New Zeal. Inst. 45: 288-293. 1913.

Annotated list of 177 vascular plants collected by author in April 1912. (Near Queenstown, Province of Otago.)

Notes of a botanical visit to Herekopere Island, Stewart Island. Trans. and Proc. New Zeal. Inst. 47: 142-144. 1915.

Running account of plants observed by author in November 1913. (In Foveaux Strait, 5 or 6 miles from Halfmoon Bay.)

Notes on a botanical visit to Coll or Bench Island (Stewart Island). Trans. and Proc. New Zeal. Inst. 50: 158-159. 1918.

General features of flora; unannotated list of 54 vascular plants. (Off northeast coast of Stewart Island.)

Notes on the botany of Routeburn Valley and Lake Harris Saddle. Trans. and Proc. New Zeal. Inst. 46: 22-29. 1914.

General features of flora; annotated list of 205 vascular plants. (Along northwestern border of Southland and Otago divisions, provincial district of Otago.)

Notes on the indigenous vegetation of Ben Lomond, with a list of species. Trans. and Proc. New Zeal. Inst. 52: 248-252. 1920.

Annotated list of 164 vascular plants. (Provincial district of Otago, near Queenstown.)

Notes on the indigenous vegetation of the northeastern portion of the Hokonui Hills, with a list of species. Trans. and Proc. New Zeal. Inst. 52: 239-247. 1920.

Annotated list of 285 vascular plants. (Southeastern part of Southland portion of Otago, between Gore, Winton, and Lumsden.)

Notes on the plant covering of Codfish Island and the Rugged Islands. Trans. and Proc. New Zeal. Inst. 44: 76-87. pl. 9. 1912.

Topography, plant associations; annotated list of 116 vascular plants. (Off northeast coast of Stewart Island.)

Notes on the plant-covering of Pukeokaoka, Stewart Island. Trans. and Proc. New Zeal. Inst. 48: 244-245. 1916.

Running account of plants observed by the author in January 1915. (Small island in Foveaux Strait, between Motunui and Herekopere Islands.)

Notes on the plant-covering of the Breaksea Islands, Stewart Island. Trans. and Proc. New Zeal. Inst. 48: 246-252. 1916.

Physiography, plant formations, introduced plants; list of 69 indigenous vascular plants. (Group of 6 small islands east of Stewart Island, between Port Adventure and Lord's River, 47°6' S. Lat., 168°15' E. Long.)

Notes on the plant covering of the Garvie Mountains, with a list of species. Trans. and Proc. New Zeal. Inst. 47: 120-142. 1915.

Botanical explorations, topography, plant associations; annotated list of 360 vascular plants. (On border of Otago and Southland portions of the provincial district of Otago.)

and Thomson, W. A. Notes of a botanical visit to Hollyford Valley and Martin's Bay, with a list of indigenous plants. Trans. and Proc. New Zeal. Inst. 50: 146-154. 1918.

Topography, plant associations; annotated list of vascular plants collected by authors and others in 1916-17. (Northwestern part of Otago proper.)

Simpson, George, and Thomson, J. S. Results of a brief botanical excursion to Rough Peaks Range. New Zeal. Jour. Sci. and Technol. 8: 372-378. 4 fig. 1926.

Lists of vascular plants from different altitudes collected by authors in March 1926. The range had not been botanized before. (Near Lake Wakatipu, Province of Otago.)

Smith, J. C. List of phanerogamic plants indigenous in the Southland district. Trans. and Proc. New Zeal. Inst. 46: 220-246. 1 fig. (map). 1914.

Annotated list of vascular plants. (Southwestern part of South Island.)

Notes on the botany of Lake Hauroko district. Trans. and Proc. New Zeal. Inst. 43: 248-253. 1911.

General features of flora; annotated list of 225 vascular plants. (Southland region, provincial district of Otago.)

Smith, J. C. The vegetation of Awarua Plain. Trans. and Proc. New Zeal. Inst. 58: 55-56. pl. 1. 1927.

General features of flora; list of vascular plants. The Awarua Plain is a swamp bog covering many thousand acres. (Southland region, provincial district of Otago.)

Smith, W. W. Plants naturalised in the County of Ashburton. Trans. and Proc. New Zeal. Inst. 36: 203-225. 1904.

General account of introductions, etc.; list of 368 angiosperms, with country of origin. (Central coastal region, Province of Canterbury.)

Speight, Robert, Cockayne, Leonard, and Laing, R. M. The Mount Arrow-smith district; a study in physiography and plant ecology. Trans. and Proc. New Zeal. Inst. 43: 313-378. 3 fig. (incl. 2 maps), pl. 3-7. 1911.

Topography, hydrography, glaciers, plant formations, etc.; annotated list of 357 vascular plants; bibliography. (In Southern Alps, on border between Provinces of Canterbury and Westland.)

—Wall, Arnold, and Laing, R. M., eds. Natural history of Canterbury. Issued by the Philosophical Institute of Canterbury . . . ix, 299 p. plates, ports., maps. 22 cm. Christchurch, 1927.

Includes among other contributions dealing with botany, "The history of botanical research in Canterbury" (p. 97-103, including bibliography), by R. M. Laing; "The vegetation and flora of the Canterbury Plain" (p. 115-144), by L. Cockayne, with annotated tabular list of 341 vascular plants; "Alpine and sub-alpine flora" (p. 145-159), by A. Wall, with lists of characteristic species growing at the higher altitudes.

Townson, William. On the vegetation of the Westport district. Trans. and Proc. New Zeal. Inst. 39: 380-433. pl. 14-14a (incl. map). 1907.

Topography, geology, general features of flora; annotated list of 789 vascular plants.—See also Petrie, D. Some additions to the flora of the Westport district. l. c. 46: 30-31. 1914. (Provincial district of Nelson.)

Wall, Arnold. The botany of Christchurch. 41 p. Christchurch, [1922].

"The paper gives details of plant stations, with a complete list of species." (Not seen; data from Bot. Abstr. 14: 366. 1925.) (Province of Canterbury.)

—The flora of Mount Cook. 55 p. illus. Christchurch, 1925.

Plant communities, growth forms, etc.; list of vascular plants. (Not seen; data from Bot. Abstr. 15: 529. 1926.) (Province of Canterbury.)

TASMANIA

See also Australia (general works).

General

Archer, William. Notes on the vegetable products of Tasmania . . . In Whiting, George. The products and resources of Tasmania, as illustrated in the International exhibition, 1862. 2d ed. enl. and corr. p. 39-42. Hobart Town, 1862. (Reprinted in Technologist 3: 1-5. 1863.)

Annotated list, mainly of useful trees.

Hooker, J. D. Flora Tasmaniae. 2 v. 200 col. pl. 33 cm. London, 1860 (1855-60). (The botany of the Antarctic voyage of H. M. discovery ships *Erebus* and *Terror*, in the years 1839-1843 . . . pt. III.)

General features of floras of Australia, Tasmania, etc.; phytogeography; annotated list of edible plants of Australia; botanical explorations in Australia; annotated descriptive flora of Tasmania, with key to families, local and general range. Vol. 1, Dicotyledons and Coniferae; vol. 2, Monocotyledons and cryptogams (the cellular cryptogams by other authors).

Maiden, J. H. Records of Tasmanian botanists. Papers and Proc. Roy. Soc. Tasmania 1909: 9-29. [1910.]

Bibliography; alphabetical list of botanists and collectors with biographical information.

Rodway, Leonard. The Tasmanian flora. xix, 320 p. plates. 24.5 cm. Hobart, 1903.

Flora of vascular plants, with keys, brief descriptions, local and general range; glossary, including vernacular names (not given in text).

Spicer, W. W. A handbook of the plants of Tasmania. xxiv, 160 p. 4 pl. 19 cm. Hobart Town, 1878.

Annotated list of 1,096 vascular plants, with keys; glossary. Intended for popular use.

Local

Gibbs, L. S. Notes on the phytogeography and flora of the mountain summit plateaux of Tasmania. Jour. Ecology 8: 1-17, 89-117. 1920.

Geology, physiography, climate, plant formations, descriptions of mountains, plant associations of mountain summit plateaus, phytogeography (all with footnote references); annotated list of cellular and vascular plants collected by the author in 1914-15, with general range indicated.

Mueller, Ferdinand von. Deal Island. Papers and Proc. Roy. Soc. Tasmania 1883: 282-283. 1884.

Unannotated list of vascular plants. (In Kent's Group in Bass Strait, 39° 28' S. Lat., 147° 22' E. Long.)

Flora of King Island. List of plants collected . . . Victorian Nat. 4: 140-146. 1888.

Unannotated lists of vascular plants and of introduced species. (Between Tasmania and Australia, 40° S. Lat., 144° E. Long.)

Sutton, C. S. A sketch of the vegetation of the Cradle Mountain, Tasmania, and a census of its plants. Papers and Proc. Roy. Soc. Tasmania 1928: 132-159. 1929.

Mainly ecological; includes tabular list of vascular plants, with ecological occurrence indicated. (In west-central Tasmania, 41° 42' S. Lat., 145° 58' E. Long.)

INSULAR FLORAS

ATLANTIC OCEAN

ASCENSION ISLAND

General

Hemsley, W. B. Ascension. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 31-48. pl. 16-17. London, 1885 (1884).

Physiography, general features of flora, etc.; annotated list of plants (including cellular cryptogams by other authors). Includes 12 phanerogams and 14 vascular cryptogams.

Local

Rudmose Brown, R. N. Contributions towards the botany of Ascension. Trans. and Proc. Bot. Soc. Edinb. 23: 199-204. 1906. (Reprinted in Report on the scientific results of the voyage of S. Y. *Scotia* . . . v. 3, Botany. 1912.)

Physiography, etc.; annotated list of vascular (10 species) and cellular plants collected by the author.

Watson, Sereno. Notes upon a collection of plants from the island of Ascension. Proc. Amer. Acad. Arts and Sci. 26: 161-163. 1891. (Reprinted as Contributions to American botany, Gray Herbarium, no. 18, 4.)

List of 16 vascular plants (plus 6 cellular), collected on United States Eclipse Expedition of 1889; adds 9 vascular plants to Hemsley's flora (1884).

AZORES

General

Seubert, Moritz. Flora azorica quam ex collectionibus schedisque Hochsteteri patris et filii elaboravit . . . vi, 50 p. 15 pl. 28 cm. Bonnae, 1844.

Annotated list of 400 (or 391) species, of which 67 are cellular plants; 50 species endemic; geography, physiography, zones of vegetation.

Trelease, William. Botanical observations on the Azores. Ann. Rpt. Missouri Bot. Gard. 8: 77-220. pl. 12-66. 1897.

Annotated list of all plants known from the Azores, with references to descriptions; geography, meteorology, general features of vegetation; bibliography.— See also Tutin, T. G., and Warburg, E. F. Notes on the flora of the Azores. (Contributions from the University herbarium, Cambridge.) Jour. Bot. 70: 7-13, 38-46. 1932.

Watson, H. C. Botany of the Azores. In Godman, F. DuC. Natural history of the Azores . . . p. 113-288. London, 1870.

Annotated list of 478 vascular plants; history of botanical exploration, with critical remarks on previous lists; geographical affinities of flora, with tabular list.

BERMUDA ISLANDS

General

Britton, N. L. Flora of Bermuda. xi, 585 p. illus., col. pl. 23.5 cm. New York, 1918.

Complete flora of vascular and cellular plants, including cultivated as well as native and introduced species, with keys, synonymy, description, extralimital range, and text figure of all native and naturalized species above the thallophytes; brief description of region and statistics of distribution; annotated bibliography; glossary; list of principal collections made in Bermuda. Musci by E. G. Britton, Hepaticae by A. W. Evans, Lichenes by L. W. Riddle, Fungi by F. J. Seaver, Algae by M. A. Howe.

Hemsley, W. B. The Bermudas. In his Report on the botany of the Bermudas and various other islands. . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 1. 135 p. pl. 1-13. London, 1885 (1884).

Physiography, climate, general features of flora, botanical explorations, statistics; systematic list of vascular plants (also cellular plants, by various authors) with localities, names of collectors, general range. Includes 326 vascular plants, of which 144 are probably indigenous.

CANARY ISLANDS

General

Lindinger, Leonhard. Beiträge zur kenntnis von vegetation und flora der Kanarischen Inseln. 2. teil. Flora der Kanarischen Inseln. Berichtigungen und nachträge zu J. Pitard et L. Proust, Les îles Canaries. Flore de l'archipel. Paris, 1909. Abhandl. Gebiet Auslandsk. Hamburg. Univ. 21 (reihe C, Naturw. bd. 8): 135-350. 1926.

Bibliography; list of vascular plants (alphabetically arranged by families) with citation of all records additional to Pitard and Proust.

Pitard, Joseph, and Proust, Louis. Les Iles Canaries. Flore de l'archipel. 502 p. 19 pl. 25 cm. Paris, [1908].

Botanical collections, topography, climate, soils, zones of vegetation, phytogeography, endemic forms; annotated list of vascular plants (about 1,352 species), Musci, and Hepaticae, with pertinent synonymy, localities, and general range.

Sauer, Fritz. Catalogus plantarum in Canariensibus insulis sponte et subsponte crescentium. 78 p. 21 cm. Halis Saxonum, 1880. (Dissertation.)

Bibliography; tabular list, showing general distribution; annotations, statistics, phytogeography.

Webb, P. B., and Berthelot, Sabin. Phytographia canariensis. In their Histoire naturelle des Iles Canaries. t. 3, 2. ptie. 4 sect. in 6 v. 288 pl. (pt. col.). 35 cm. Paris, 1836-1850.

Descriptive flora, in Latin, with synonyms, vernacular names, local and extralimital range, of vascular and cellular plants (the latter by C. Montagne). For dates of publication see Jour. Soc. Bibl. Nat. Hist. 1: 55-58. 1937.

Local

Bolle, Carl. Florula insularum olim Purpurariarum, nunc Lanzarote et Fuertaventura cum minoribus Isleta de Lobos et la Graciosa in archipelago canariensi. Bot. Jahrb. Engler 14: 230-257. 1891.

Annotated list of 400 vascular plants. The general features of flora are discussed in his "Botanische rückblicke auf der Inseln Lanzarote und Fuertaventura," l. c. 16: 224-261. 1892. A single unnumbered page "Omissa et addenda ad Florulam . . ." raising the total to 416, was issued with Bot. Jahrb. Engler v. 15 in 1892 (date according to Bot. Centralbl. 51: 89).

Knoche, Herman. Die Kanarischen Inseln. His Vagandi mos. Reiseskizzen eines botanikers, I. 304 p. front., illus. (incl. maps), 23 pl. 25.5 cm. Strasbourg, 1923.

Ecology of different islands, etc.; bibliography (p. 40-41); list of vascular plants (and lichens) collected by the author (p. 211-279).

Masferrer y Arquimbau, Ramón. Recuerdos botánicos de Tenerife; ó sea, datos para el estudio de la flora canaria. Anales Soc. Españ. Hist. Nat. 9: 309-369. 1890; 10: 139-230. 1881; 11: 307-398. 1882.

Annotated list of spermatophytes of Tenerife, with notes on those of the Canary Islands in general, Madeira, and Azores. Never completed; Plantago is last genus treated.

Schenck, Heinrich. Beiträge zur kenntnis der vegetation der Canarischen Inseln . . . In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1898-1899. v. 2, teil 1, p. 227-406. 71 fig. (incl. maps), pl. 16-27. Jena, 1907.

Botanical explorations, bibliography, physiography, climate, plant formations, lists of species of different localities, etc.

CAPE VERDE ISLANDS

General

Cardoso, João, jr. Agrupamentos para a classificação thérapeutica das plantas medicinaes do Archipelago de Cabo Verde. In his Subsídios para a materia medica e thérapeutica das possessões ultramarinas portuguezas. v. 1, p. 1-12. Lisboa, 1902.

Unannotated list of medicinal plants, grouped by uses.—On p. 97-100, unannotated alphabetical "Catalogo de plantas medicinaes do Archipelago de Cabo Verde."

Chevalier, Auguste. Les Iles du Cap Vert. Géographie, biogéographie, agriculture, flore de l'archipel. Revue Bot. Appl. et Agr. Trop. 15: 733-1090. fig. 22-32 (incl. map), 16 pl. 1935.

Author's itinerary and bibliography, prehistory, discovery, colonization, geography, climate, geology, soil, general features of fauna, population, bibliography; botanical explorations, statistics, phytogeography, analysis of flora, zones of vegetation, plant associations, weeds, agriculture, chronological bibliography of flora; annotated list of 636 vascular plants known from the group, including cultivated plants (about 300 species considered native), with local and general range and vernacular names (indexed); lists of cellular plants collected by the author.

Schmidt, J. A. Beiträge zur flora der Cap Verdischen Inseln. Mit berücksichtigung aller bis jetzt daselbst bekannten wildwachsenden und kultivirten pflanzen . . . viii, 356 p. 22 cm. Heidelberg, 1852.

History, climate, cultivated plants, phytogeography, plant formations, statistics; list of wild and cultivated vascular and cellular plants (435 vascular), with localities, collectors' names, and general distribution.

Local

Continho, A. X. P. Herbarii gorgonei universitatis olisiponensis catalogus. Arg. Univ. Lisboa 1: 265-334. 1914.—Supplementum . . . l. c. 2: 27-59. 1915.

List of 311 vascular plants, with references and localities, in the herbarium of Lisbon University, collected principally by Cardoso and Borjona in Cape Verde Islands.

Krause, E. H. L. Flora der insel St. Vincent in der Capverdengruppe. Bot. Jahrb. Engler 14: 394-425. 1891.

Physiography, climate, etc.; annotated list of 183 vascular plants; plant formations, phytogeography, origin of flora.

COCKBURN ISLAND

General

Schenck, Heinrich. Vergleichende darstellung der pflanzengeographie der subantarktischen inseln . . . VI. Antarktisches polargebiet. In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "*Valdivia*" 1898-1899. v. 2, teil 1, p. 161-178. Jena, 1905.

Botanical explorations, bibliography, climate; separate tabular lists of cellular plants from Cockburn Island, Victoria Land, and Gerlache Strait. The only vascular plant known from the area is *Deschampsia antarctica* (see p. 162). Cockburn is a small island off the east coast of James Ross Island, Louis-Philippe Land, West Antarctica.

FALKLAND ISLANDS

General

Schenck, Heinrich. Vergleichende darstellung der pflanzengeographie der subantarktischen inseln . . . III. Falkland-inseln. In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "*Valdivia*" 1898-1899. v. 2, teil 1, p. 96-106. Jena, 1905.

Botanical collections, bibliography, physiography, climate, general features of flora (no complete list), plant formations.

Skottsberg, Carl. A botanical survey of the Falkland Islands. (Botanische ergebnisse der Schwedischen expedition nach Patagonien und dem Feuerlande 1907-09. III.) K. Svenska Vetensk.-Akad. Handl. v. 50, no. 3. 129 p. 10 fig., 14 pl., map. 1913.

Botanical explorations, annotated list of all known vascular plants, with localities and extralimital range; phytogeography, growth forms, phenology, plant associations, bibliography.—See also his Bemerkungen zu einigen von M. Gandoger neuerdings von den Falkland-inseln beschriebenen pflanzen. Bot. Jahrb. Engler 50 (Beibl. 112): 13-17. 1913, for minor corrections and for reduction of numerous new species described by Gandoger.

— Studien über das pflanzenleben der Falkland-inseln. In Wissenschaftliche ergebnisse der Schwedischen südpolar-expedition 1901-1903. v. 4, pt. 10. 58 p. 5 fig. Stockholm, 1909.

Physiography, climate, plant associations, periodicity, bibliography, etc.; annotated list of vascular plants (including all previous records); plant geography (139 native species, of which 10 are endemic).

Wright, C. H. Flora of the Falkland Islands. Jour. Linn. Soc. Bot. 39: 313-339. 1911.

Annotated list of vascular plants, with references.

Local

Birger, Selim. Die vegetation bei Port Stanley auf den Falklandsinseln. Bot. Jahrb. Engler 39: 275-305. 1 fig., 2 pl. 1906.

Botanical explorations with bibliographical footnotes, climate, plant associations, phenology; includes list of species new to the islands.

Skottsberg, Carl. C. V. Marquand's "Additions to the flora of the Falkland Islands." Acta Horti Gothoburg. 4: 303-306. 1929.

Critical notes on the paper listed (Bull. Misc. Inform. Kew 1923: 369-371. 1923), as well as on the nomenclature of certain plants in his own "Botanical survey" of 1913.

Vallentin, Mrs. E. F., and Cotton, Mrs. E. M. Illustrations of the flowering plants and ferns of the Falkland Islands. xii p., 65 l. 64 col. pl. 25.5 cm. London, 1921.

Colored plates with dissections, accompanied by descriptions and brief annotations.

FERNANDO NORONHA

General

Hemsley, W. B. Fernando-Noronha and contiguous islets. In his Report on the botany of the Bermudas and various other islands . . . Report on the

scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 9-30. pl. 14-15, 47. London, 1885 (1884).

Physiography, climate, general features of flora; systematic list of plants (vascular and cellular), with statement of general range. Includes 53 phanerogams and no vascular cryptogams.

Ridley, H. N. Notes on the botany of Fernando Noronha. Jour. Linn. Soc. Bot. 27: 1-95. pl. 1-4. 1890.

Physiography, history, origin of flora, etc.; annotated list of vascular and cellular plants, the latter contributed by other authors; geology.

GRAHAM LAND

General

Skottsberg, Carl. Einige bemerkungen über die vegetationsverhältnisse des Graham-Landes. In Wissenschaftliche ergebnisse der Schwedischen südpolar-expedition 1901-1903. v. 4, pt. 13. 16 p. 2 fig. (incl. map), 3 pl. Stockholm, 1912.

Climate, etc.; lists of plants of Graham Land, adjacent small islands, and South Shetland Islands, collected by this expedition; bibliography. Only one vascular plant listed (*Aira antarctica* [*Deschampsia antarctica*]); *Colobanthus crassifolius* (d'Urv.) Hook. f. also is known from Graham Land (Charcot's first expedition).

— Some remarks upon the geographical distribution of vegetation in the colder southern hemisphere. Ymer 25: 402-427. 6 fig., pl. 7-8 (maps). 1905.

Mainly phytogeographical, with summary of knowledge of flora of Antarctic islands; bibliography. Cited here for its sketch (p. 410-414) of the flora of Graham Land.

MADEIRA ISLANDS

General

Lowe, R. T. A manual flora of Madeira and the adjacent islands of Porto Santo and the Desertas. 2 v. (v. 1-2, pt. 1). 19.5 cm. London, 1868 (1857-72).

Plant zones; annotated descriptive flora of vascular plants. Incomplete (Thalamiflorae, Calyciflorae, Corolliflorae).—See also Menezes, C. A. de. Notice sur les phanérogames de Madère et Porto Santo, non indiquées dans la flore de ces îles de R. T. Lowe. 22 p. 23 cm. Funchal, 1899. Includes 390 species of spermatophytes, with brief annotations and vernacular names; list of special localities with local species; bibliography. Nearly the same material, lacking list of special localities and bibliography, was published as his "Catalogo das phanerogamicas de Madeira e do Porto Santo não indicadas na flora d'estas ilhas do R. T. Lowe." 1894.

Menezes, C. A. de. Flora do archipelago da Madeira (phanerogamicas e cryptogamicas vasculares). 282 p. 22 cm. Funchal, 1914.

Annotated list of 951 vascular plants (both wild and cultivated), with localities, pertinent references, vernacular names, and usually brief descriptions; climate, zones of vegetation, annotated list of botanists, bibliography.—For supplement, see his "Subsidios para o estudio da flora . . ." Brotéria Sér. Bot. 20: 113-119. 1922 and "Novos subsidios . . ." l. c. 22: 20-27. 1926.—Also his Mais algumas notas sobre a flora madeirense. l. c. 23: 73-77. 1927; Nota acerca de algumas plantas de flora do arquipelago da Madeira. Jor. Sci. Mat., Fís. e Nat. Lisboa 24 (III, 5): 183-187. 1927.

Porto da Cruz, visconde do. A flora madeirense na medicina popular. Brotéria Ciên. Nat. 4: 35-46, 71-78, 139-144, 145-154. 3 fig. (incl. map). 1935.

Running account of medicinal plants, with vernacular and botanical names, grouped under the diseases for which they are used.

Vahl, Martin. Madeiras vegetation. Geografisk monografi. 172 p. 1 pl. 23.5 cm. København og Kristiania, 1904.

Physiography, climate, ecology, phytogeography, etc.; cited here mainly for its bibliography.

Local

Menezes, C. A. de. A flora dos mais altos picos de Ilha da Madeira. Brotéria Sér. Bot. 22: 124-132. 1926.

List of 44 vascular plants, with localities.

PALMER LAND

General

Hooker, J. D. *Flora antarctica*. 2 v. 187 pl. 305 cm. London, 1844-48. (The botany of the Antarctic voyage of H. M. discovery ships *Erebus* and *Terror*, in the years 1839-1843 . . . pt. I.)

Vol. 1: Lord Auckland's Group and Campbell's Island. Physiography, etc.; annotated list of vascular and cellular plants. Vol. 2: Antarctic regions (exclusive of Lord Auckland's Group and Campbell's Island). Annotated list of vascular and cellular plants from Fuegia, Falkland Islands, Palmer Land, South Shetland Islands, South Georgia, Tristan d'Acunha, and Kerguelen's Land. All the regions mentioned, except Palmer Land, are covered by separate later floras.

ST. HELENA

General

Hemsley, W. B. *St. Helena*. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 49-122. pl. 18-22, 48-51. London, 1885 (1884).

Physiography, climate, historical sketch of the vegetation, geographical affinities, etc.; annotated list of plants (vascular and cellular), with extra-limital range. About 94 species are considered probably indigenous.

Melliss, J. C. *St. Helena: a physical, historical, and topographical description of the island, including its geology, fauna, flora, and meteorology*. xiv, 426 p. plates (partly col.). 265 cm. London, 1875.

(Botany, p. 221-383, col. pl. 25-56.) Annotated list of 1,058 plants (of which 907 are vascular) growing on the island, a very large number of which are known only in cultivation. Nearly all the endemic plants are illustrated.

SALVAGE ISLANDS

General

Lowe, R. T. *Florulae salvagicae tentamen; or a list of plants collected in the Salvages or Salvage Islands by Sr. Constantino Cabral de Noronha* . . . 24 p. 18 cm. London, 1869.

Physiography, etc.; annotated list of 74 plants (64 vascular), with extra-limital range; general features of flora.—See also Menezes, C. A. de. *Subsidios para o conhecimento da flora das Ilhas Selvagens*. *Jor. Sci. Math., Fis. e Nat. Lisboa* 23: 187-194. 1924.

SOUTH GEORGIA

See also Australian Islands (Cheeseman, On the systematic botany).

General

Schenck, Heinrich. *Vergleichende darstellung der pflanzengeographie der subantarktischen inseln* . . . II. Südgeorgien, nebst Sandwich-inseln, Bouvet-insel. In *Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1898-1899*. v. 2, teil 1, p. 82-96. Jena. 1905.

Botanical collections, bibliography, geography, physiography, climate; tabular list of 18 vascular plants; formations, etc. No botanical collections have yet been made on the Sandwich Islands (56°-59° S., 26°-28° W.) or Bouvet Island (54°26' S., 3°24' E.).

Skottsberg, Carl. *Die gefässpflanzen Südgeorgiens*. In *Wissenschaftliche ergebnisse der Schwedischen südpolar-expedition 1901-1903*. v. 4, pt. 3. 12 p. 2 pl., map. Stockholm, 1905.

Annotated list of 19 vascular plants; phytogeographical relations.—See also his *The vegetation of South Georgia*. In *Wissenschaftliche ergebnisse der Schwedischen südpolar-expedition 1901-1903*. v. 4, pt. 12. 36 p. 4 fig., 6 pl., map. Stockholm, 1912. (Botanical explorations, physiography, etc.; list of species; origin of flora, plant formations, etc.)—For additions, see Taylor, Norman. *Plants collected on the South Georgia expedition*. *Sci. Bul. Mus. Brooklyn Inst. Arts and Sci.* 2: 60-63. 1914.

SOUTH ORKNEY ISLANDS

General

Rudmose Brown, R. N., Wright, C. H., and Darbishire, O. V. The botany of the South Orkneys. Trans. and Proc. Bot. Soc. Edinb. 23: 101-110. pl. 3. 1905. (Reprinted with additions and with omission of portion on mosses in Report of the scientific results of the voyage of S. Y. *Scotia* . . . v. 3, Botany. 1912.)

History, topography, climate; lists of mosses (Wright) and lichens (Darbishire); no vascular plants known.

TRINIDAD ISLAND

General

Hemsley, W. B. South Trinidad. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 123-132. pl. 23-24. London, 1885 (1884).

Physiography, etc.; annotated list of plants (vascular and cellular); general range stated. Includes 9 phanerogams and 4 ferns. Trinidad or South Trinidad is in 20°30' S. Lat., 29°22' W. Long.

TRISTAN DA CUNHA ISLANDS

General

Christophersen, Erling, and others. Plants of Tristan da Cunha. 19 p. 27.5 cm. Oslo, 1937. (Scientific results of the Norwegian Antarctic expeditions 1927-1928 et sqq., no. 16.)

Botanical explorations, phytogeography; annotated list of plants collected by Einar Siggeson in 1934; unannotated list of cellular and vascular (104 species) plants known from the group, not including Gough Island; bibliography.

Hemsley, W. B. The Tristan da Cunha group. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 133-185. pl. 25-39, 45-46. London, 1885 (1884).

Physiography, botanical explorations, statistical table of distribution; annotated list of vascular and cellular plants (65 vascular). The group includes Tristan da Cunha, Inaccessible, and Nightingale Islands.

Local

Christophersen, Erling. Plants of Gough Island (Diego Alvarez). 16 p. 3 fig. 27.5 cm. Oslo, 1934. (Scientific results of the Norwegian Antarctic expeditions 1927-1928 et sqq., no. 13.)

Phytogeography; list of plants collected by Lars Christensen in 1933; unannotated list of cellular and vascular (38) plants recorded from the island; bibliography.

Dyer, R. A. The flora of Tristan da Cunha: H. M. S. *Carlisle* expedition, 1937. Bothalia 3: 589-612. 7 fig. 1939.

Botanical explorations, affinities, history, and general features of flora; list of cellular and vascular plants collected by author. Adds 6 phanerogams, all presumably introduced.

Phillips, E. P. A list of the phanerogams and ferns collected by Mr. P. C. Keytel on the island of Tristan da Cunha, 1908-1909. Annals So. African Mus. 9: 96-103. 1913.

List of plants collected, with general range: list of additional species recorded from the island. Includes 37 species not previously recorded.

Rudmose Brown, R. N. The botany of Gough Island.—I. Phanerogams and ferns. Jour. Linn. Soc. Bot. 37: 233-249. 1 fig., pl. 7-9. 1905. (Reprinted in Report on the scientific results of the voyage of S. Y. *Scotia* . . . v. 3, Botany. 1912.)

Annotated list of 27 vascular plants (2 endemic), with general range; physiography, general features of vegetation, bibliography.

Wilkins, G. H. Gough Island. Jour. Bot. 63: 65-70. 1925.

General features of flora; annotated list of vascular and cellular plants (phanerogams by E. G. Baker and Wilkins; cryptogams by A. Gepp, H. N. Dixon, and R. Paulson).

INDIAN OCEAN

ALDABRA

See also Seychelles (Hemsley; Sommerhayes).

General

Hemsley, W. B., and others. Flora of Aldabra: with notes on the flora of the neighbouring islands. Bul. Misc. Inform. Kew 1919: 108-153. 1919.

Physiography, climate, botanical explorations, plant associations, systematic list of vascular plants (about 171 apparently native species) with collectors' names and general range; geographical relationships of flora; bibliography. Includes also lists of plants from other atolls in this general area—Assumption (p. 140-142), Cosmoledo (p. 142-143), Astove (p. 143), Farquhar (p. 143), Providence (p. 143-144), St. Pierre (p. 144-145), Gloriosa (p. 145), Amirante group (p. 145), Coëtivy (p. 146), Agalega (p. 146), Cargados (p. 147), Chagos Archipelago (p. 148).

ANDAMAN ISLANDS

General

Kurz, Sulpiz. Report on the vegetation of the Andaman Islands, accompanied by a report on the forests. 75 p. map. 33 cm. Calcutta, 1870. (Reprint with additions and corrections of an earlier report (27, xxv, 13 p.), 1870.)

Annotated list of vascular plants (520 species indigenous, 76 introduced); general floral features; report on forests; vernacular names; no index. An 1867 edition is listed by B. D. Jackson.

Parkinson, C. E. A forest flora of the Andaman Islands. An account of the trees, shrubs and principal climbers of the islands. v, v, xiii, 325 p. front., 6 pl. 18 cm. Simla, 1923.

Annotated descriptive flora of woody plants, with keys (about 650 species, of which 540 indigenous); vernacular names (indexed); lists of species; geography, physiography, climate, general features of vegetation; history of botanical exploration; bibliography; glossary.

Prain, David. The non-indigenous species of the Andaman flora. Jour. Asiatic Soc. Bengal 59 (2): 235-261. 1891. (Reprinted in his Memoirs and memoranda, chiefly botanical. 1894.)

Annotated lists of cultivated and introduced species, as observed in 1866 and 1889-90; general study of subject of introduced plants.

Rogers, C. G. A preliminary list of the plants of the Andaman Islands. ii, 51 p. 23.5 cm. Port Blair, Andaman Isl., 1903.

Nominal list, unannotated, "Drawn up for me by Mr. J. S. Gamble . . . chiefly from the 'Flora of British India.'"

Local

Kloss, C. B. In the Andamans and Nicobars. The narrative of a cruise in the schooner *Terrapin*, with notices of the islands, their fauna, ethnology, etc. xvi, 373 p. illus., plates. 24.5 cm. London, 1903.

Contains, in addition to passing notes in the text, a list of "Principal forest trees of the Andamans" (p. 336-338) with vernacular names and uses (p. 339-341), and "Principal flora of the Nicobars" (p. 345-349).

Prain, David. On a botanical visit to Little Andaman and the Nicobars. Proc. Asiatic Soc. Bengal 1891: 156-175. 1892. (Reprinted in his Memoirs and memoranda, chiefly botanical. 1894.)

Physiography, general features of flora; separate lists for Little Andaman (61 species, of which 56 are vascular plants) and Car Nicobar and Batti Malv (113 species, of which 112 are vascular plants).

CHAGOS ARCHIPELAGO

See also Aldabra (Hemsley); Maldive Islands (Willis and Gardiner).

General

Willis, J. C., and Gardiner, J. S. Flora of the Chagos Archipelago. Trans. Linn. Soc. Zool. 19: 301-306. 1931.

Botanical explorations, etc.; annotated list of vascular plants (98 native or escaped species).

Local

Hemsley, W. B. Report on the vegetation of Diego Garcia. Jour. Linn. Soc. Bot. 22: 332-340. 1886.

Botanical collections, physiography, etc.; tabular list of 43 probably indigenous vascular plants, with extralimital distribution indicated.

CHRISTMAS ISLAND

General

Andrews, C. W. A monograph of Christmas Island (Indian Ocean). Physical features and geology . . . with descriptions of the fauna and flora by numerous contributors. xiii, 337 p. illus., 21 pl., map. 22.5 cm. London, 1900.

Contains (p. 171-195, pl. 17-18) an annotated list of 152 vascular plants by E. G. Baker, A. B. Rendle, and A. Gepp.

Ridley, H. N. An expedition to Christmas Island. Jour. Straits Branch Roy. Asiatic Soc. 45: 137-271. 1906.—Christmas Island flora—additional notes. 1. c. 48: 107-108. 1907.

Botanical explorations; critical notes on vernacular names; list of introduced plants, arranged by date of first record; list of endemic species; annotated list of cultivated plants; note on timbers; annotated list of vascular and cellular plants (about 151 indigenous vascular plants, of which 29 are endemic); methods of dissemination.

COCO ISLANDS

General

Prain, David. The vegetation of the Coco group. Jour. Asiatic Soc. Bengal 60 (2): 283-406. 1892. (Reprinted in his Memoirs and memoranda, chiefly botanical. 1894.)

Physiography, general features of flora, annotated list of 358 species (of which 307 are vascular plants), with extralimital distribution; statistical study of distribution and probable origin of flora. The islands are in the Bay of Bengal, not far north of the Andaman Islands.

COMORO ISLANDS

See also Madagascar (Jumelle).

General

Voeltzkow, Alfred. Flora und fauna der Comoren. In his Reise in Ostafrika in den Jahren 1903-1905 . . . v. 3, p. 429-480. Stuttgart, 1917.

Flora (p. 430-454): botanical explorations; list of cellular and vascular plants with localities and extralimital range, prepared with assistance of G. Schellenberg; bibliography.

CROZET ISLANDS

See also Kerguelen Island (Schenck); Macdonald Islands (Hemsley).

General

Hemsley, W. B. The Crozets. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the

voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 207-210. pl. 40. London, 1885 (1884).

Physiography, etc.; annotated list of plants (vascular and cellular). Includes 5 phanerogams and 2 ferns.

Schenck, Heinrich. Die gefässpflanzen der Deutschen südpoler-expedition 1901-1903 gesammelt auf der Possession-insel (Crozet-gruppe), Kerguelen, Heard-insel, St. Paul und Neu-Amsterdam. In Deutsche südpoler-expedition . . . 8. bd. Botanik. p. 97-123. 10 fig. Berlin, 1906.

Annotated lists of vascular plants of Possession Island (18 species), Kerguelen (several lists), Heard Island (7 species), St. Paul and New Amsterdam (4 and 8 species, respectively).

GLORIOSA ISLANDS

See also Aldabra.

Local

Hemsley, W. B. Islands of the Indian Ocean. List of plants in the Kew herbarium collected in some of the smaller tropical islands by Dr. Copping. In his Report on present state of knowledge of various insular floras . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 1, p. 16-17. London, 1885.

List of vascular plants from Du Lise and Gloriosa Islands, of the Gloriosa group, off Madagascar; Bird Island, in the Seychelles; Eagle Island, Isle des Roches, and Poivre Island, of the Amirante group; Providence and Alphonse Islands and Cerf Islets, Providence Reef, northeast of Madagascar.

KEELING ISLANDS

See also Molucca Islands (Hemsley).

General

Forbes, H. O. List of the Keeling Atoll plants. In his A naturalist's wanderings in the eastern archipelago . . . from 1878 to 1883. p. 42-43. London, 1885.

Unannotated tabular list of vascular and cellular plants collected by Charles Darwin and by the author.

Henslow, J. S. Florula keelingensis. An account of the native plants of the Keeling Islands. Annals Nat. Hist. 1: 337-347. 1838.

Annotated list of 21 vascular and cellular plants collected by Darwin on the voyage of the *Beagle*.

Local

Guppy, H. B. The dispersal of plants as illustrated by the flora of the Keeling or Cocos Islands. Jour. Trans. Victoria Inst. (London) 24: 267-301. 1890.

Mainly phytogeographical; contains (p. 272-273) a list of 16 phanerogams not recorded from the islands previous to 1888.

KERGUELEN ISLAND

See also Crozet Islands (Schenck); Prince Edward Islands (Moseley); Australian Islands (Cheeseman, On the systematic botany).

General

Hemsley, W. B. Kerguelen Island. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 211-243. pl. 40. London, 1885 (1884).

Physiography, general features of flora; annotated list of plants (vascular and cellular). Includes 21 phanerogams and 6 pteridophytes.

Hooker, J. D. Botany [of Kerguelen Island]. In An account of the petrological, botanical, and zoological collections made in Kerguelen's Land and Rodriguez during the Transit of Venus expeditions . . . 1874-75. Phil. Trans. Roy. Soc. 168 (extra vol.): 9-23. pl. 1-2. 1879.

Sketch of botanical explorations and general features of flora; annotated list of 21 phanerogams, 6 pteridophytes, and 1 Nitella.

Schenck, Heinrich. Vergleichende darstellung der pflanzengeographie der subantarktischen inseln insbesondere über flora und vegetation von Kerguelen. I. Kerguelenbezirk (Kerguelen-, Prinz Eduard-, Crozet-, Macdonald-inseln). In *Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1893-1899. v. 2, teil 1, p. 9-82. 33 fig., pl. 1-10, map (in text). Jena, 1905.*

Botanical explorations, bibliography, geography, physiography, climate; tabular list of all vascular plants recorded from Kerguelen, Prince Edward (Marion), Crozet (Possession), and Heard Islands (35 species, of which 5 are introduced), with extralimital range; plant formations, phenology, anatomy, etc. Each island treated separately as to botanical history, bibliography, etc.

LACCADIVE ISLANDS

See also Maldives Islands (Willis and Gardiner).

General

Prain, David. Botany of the Laccadives. *Jour. Bombay Nat. Hist. Soc.* 7: 268-295, 460-486. 1893; 8: 57-86, 488. 1893-94. (Reprinted in his *Memoirs and memoranda, chiefly botanical. 1894.*)

Geography, physiography, botanical collections, bibliography; methods of introduction, etc.; annotated list of 206 plants, of which 194 are vascular.

Local

Willis, J. C. Notes on the flora of Minikoi. *Annals Roy. Bot. Gard. Peradeniya* 1: 39-43. 1901.

Bibliography; unannotated list of 134 vascular plants, with vernacular names.

MACDONALD ISLANDS

See also Crozet Islands (Schenck); Kerguelen Island (Schenck); Prince Edward Islands (Moseley).

Local

Hemsley, W. B. MacDonald group. Heard Island. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 245-248. pl. 53. London, 1885 (1884).

Physiography, etc.; botanical explorations and composition of flora of Heard Island, Kerguelen, the Prince Edward group (Marion Island), and the Crozets, with table; annotated list of 17 plants of Heard Island (5 vascular).

MADAGASCAR

See also French Guiana (Lanessan, *Les plantes utiles*, p. 873-888, for useful plants of the small island of Nossi Bé).

General

Académie malgache. Catalogue des plantes de Madagascar. 23 nos. 25 cm. Tananarive, 1931-35.

Lists of species, usually arranged alphabetically, with synonymy, vernacular names, citations of localities, geographic area (in Madagascar), and general range; bibliographies. Each family or group of families published separately. Still in course of publication.

Baillon, H. E., and Drake del Castillo, Emmanuel. *Histoire naturelle des plantes*. 6 v. plates. 33 cm. Paris, 1886-1903. (Grandidier, Alfred. *Histoire physique, naturelle et politique de Madagascar*. v. 28-30, 34-36.)

Vol. 2-6 (v. 28-29, 34-36 of whole series) consist of plates only (*Hibbertia*—*Epallage*); Baillon's name appears on title page of all but vol. 6, where it is replaced by that of Drake del Castillo. Vol. 1 (v. 30) by Drake del Castillo, pub-

lished in 1902, is a descriptive flora, with keys, synonymy, vernacular names, uses, local and general range, and citation of exsiccatae; incomplete (208 p.: Ranunculaceae—Leguminosae, Proteaceae), corresponding to only 46 of the plates. No index. Vol. 4 (v. 34) is vol. 2, pt. 4 of the atlas. Vol. 39 (1898–1915) contains the mosses, by F. Renauld and J. Cardot.

Baron, Richard. Compendium des plantes malgaches. *Revue de Madagascar* 3 (2) : 741–760, 856–865, 936–950. 1901: 4 (1) : 225–240, 534–542; 4 (2) : 39–48, 225–242. 1902; 5 (1) : 435–441; 5 (2) : 44–54, 134–144, 312–322, 429–437. 1903; 6 (1) : 346–353. 1904; 7 (1) : 60–67, 247–258; 7 (2) : 246–257. 1905; 8 : 350–364, 530–549, 708–726, 813–841, 915–936. 1906.

Systematic enumeration, with synonyms, uses, vernacular names.

——— The flora of Madagascar. *Jour. Linn. Soc. Bot.* 25 : 246–294. 1 fig. (map). 1889.

General features of flora, statistics, list of endemic genera, description of three floral regions recognized with lists of genera and species; list of introduced species.

——— Notes on the economic plants of Madagascar. *Bul. Misc. Inform. Kew* 1890 : 203–215. 1890.

Annotated systematic list of 109 species, with vernacular names.

Dandouau, André. Catalogue alphabétique des noms malgaches de végétaux. *Bul. Écon. Madagascar* 10 (Suppl.) : i–xlii. 1910; 11 (Suppl.) : xliii–cxxxvi. 1911. Alphabetical list of vernacular names, compiled from previous works and collected by the author himself, with botanical equivalents.

Heckel, Édouard. Catalogue alphabétique raisonné des plantes médicales et toxiques de Madagascar avec leur emploi indigène. *Annales Mus. Colon. Marseille* v. 11 (s. 2, v. 1), fasc. 2, p. 59–204. 3 fig. 1903. (Reprinted with title, *Les plantes médicinales et toxiques de Madagascar*. 148 p.)

Extensively annotated catalog, alphabeted by vernacular names; index of scientific names, with vernacular equivalents.

——— Les plantes utiles de Madagascar. Catalogue alphabétique des plantes utiles et en particulier des plantes médicinales et toxiques de Madagascar avec leurs noms malgaches et leurs emplois. *Annales Mus. Colon. Marseille* 18 (s. 2, v. 8) : 5–372. 72 fig. 1910. (Reprinted.)

Annotated catalog, alphabeted by vernacular names; index of scientific names with vernacular equivalents.

Humbert, Henri, ed. Flore de Madagascar (plantes vasculaires). Publiée sous les auspices du gouvernement général de Madagascar . . . 23°, 29°, 32°, 37°, 40°, 49° famille[s]. illus. 24, 26 cm. Tananarive, 1936–39.

Descriptive flora, with keys, synonymy, citation of exsiccatae with localities, vernacular names, extralimital range. Each family a separately paged monograph, with cover title only. Six families so far published (out of 189) : *Aponogetonaceae*, *Cyperaceae*, *Lemnaceae*, *Commelinaceae*, *Liliaceae*, *Orchidaceae* (the last not seen).

Jumelle, Henri. Madagascar et Comores. In his *Catalogue descriptif des collections botaniques* . . . *Annales Mus. Colon. Marseille* v. 24 (s. 3, v. 4), fasc. 1, p. 1–79. 1916.

Annotated lists of economic plants, classified according to uses, with vernacular and scientific names (both indexed).

Olsen, Aksel. Madagassiske plantenavne. *Nyt Mag. Naturvidensk.* 54 : 57–147. 1916.

Alphabetical index of 1,930 vernacular names, with botanical equivalents and brief indication of habit and often of uses.

Palacký, Jan. *Catalogus plantarum madagascariensium*. 5 fasc. (55, 38, 89, 60, 57 p.). 24 cm. Prague, 1906–07 (1905–07).—*Filices madagascarienses*. 32 p. 24 cm. Prague, 1906.

List of scientific names, with abbreviated references and indication if endemic, of "plusque 5000 esp." Families not in strictly systematic order; no index; fasc. 3 was the last to be published. Baron's Compendium was not available to the author. The list of pteridophytes is alphabetically arranged, with references to localities or collectors.

Perrier de la Bâthie, Henri. Les plantes introduites à Madagascar. *Revue Bot. Appl. et Agr. Trop.* 11 : 719–729, 833–837, 920–923, 991–999. 1931; 12 : 48–52, 128–133, 213–220, 296–301, 372–383, 462–468, 530–543. 1932.

Annotated lists of cultivated, escaped, and naturalized plants; altogether about 900 species.

Local

Alleizette, Charles d', and Poisson, Henri. Contribution à l'étude de la végétation des environs de Tananarive. *Bul. Mus. Hist. Nat. Paris* 17: 171-189. 1911.

General features of vegetation, plant zones; annotated tabular list of vascular plants, grouped by habitat, with vernacular names, based on observations made in 1905 and 1906.

Jeannot, Eugène. Les productions végétales de la région des Betsimisarakas-Betanimena (Madagascar). *Revue Cult. Colon.* 8: 38-44, 73-77, 97-102, 134-142, 168-176, 201-206, 231-233. 1901. (Reprinted 39 p.)

Native tribes, climate, plant zones; annotated list of useful plants, with vernacular names and botanical names when known, grouped by uses. (Central eastern Madagascar, from Antongile to Mananjary, west to the east ridge of the basin of Mangoro and the mountains of Tanala.)

Lecomte, Henri. Madagascar. Les bois de la forêt d'Analamazaotra . . . avec la collaboration de M. Paul Danguy . . . 188 p. 56 pl. 32.5 cm. Paris, 1922.

Mainly concerned with anatomical features of the woods, but contains illustrations of many species, with vernacular names and uses.

Perrier de la Bâthie, Henri. Le Tsaratanana, l'Ankaratra et l'Andringitra. *Mém. Acad. Malgache* 3. 68, [3] p. map. 1927.

Includes (p. 53-66) lists of endemic plants of these three mountain groups.

Poisson, Henri. Recherches sur la flore méridionale de Madagascar. 230 p. 30 fig., 16 pl. (incl. 3 maps). 25 cm. Paris, 1912.

General summary of physiography, climate, etc.; study of xerophytic plants, etc.; short list of vernacular names with botanical identifications, bibliography.

Viguié, René, and Humbert, Henri. Plantes récoltées à Madagascar en 1912. *Bul. Soc. Linn. Normandie* VII, 3: 325-356. 1921; 4: 37-52. 1922; 5: 125-140. 1923; 6: 169-200. 1924; 7: 193-208. 1925.

List of spermatophytes collected by authors, with data, vernacular names, and frequent annotations. Unfinished; reaches Orchidaceae (part).

MALDIVE ISLANDS

General

Willis, J. C., and Gardiner, J. S. The botany of the Maldive Islands. *Annals Roy. Bot. Gard. Peradeniya* 1: 45-164. pl. 2. 1901.

Botanical explorations, physiography, etc.; annotated list of all vascular plants known from the Maldives, Laccadives, and Chagos, with vernacular names, uses, etc.; notes on vegetation of various atolls; index of Maldivian vernacular names; economic plants, classified by uses; origin of flora.

MASCARENE ISLANDS

See also French Guiana (Lanessan, Les plantes utiles, p. 188-213, 528-582, for useful plants of Réunion).

Local

Baker, J. G. Flora of Mauritius and the Seychelles: a description of the flowering plants and ferns of those islands. 19, L, 557 p. 22 cm. London, 1877.

Botanical collections, physiography, statistics of flora (1,327 species); descriptive flora; vernacular names (separate index).—See also Johnston, H. H. Additions to the flora of Mauritius as recorded in Baker's "Flora of Mauritius and the Seychelles." *Trans. and Proc. Bot. Soc. Edinb.* 20: 391-407. 1895. (Annotated list of 103 species, including cellular cryptogams, not recorded in Baker's Flora.)—Also Vaughan, R. E. Contributions to the flora of Mauritius.—I. An account of the naturalized flowering plants recorded from Mauritius since the publication of Baker's "Flora of Mauritius and the Seychelles" (1877). *Jour. Linn. Soc. Bot.* 51: 285-308. 1937. (Discussion of methods of introduction; annotated list, with descriptions; bibliography.)

Balfour, I. B. Botany [of Rodriguez]. In An account of the petrological, botanical, and zoological collections made in Kerguelen's Land and Rodriguez during the Transit of Venus expeditions . . . 1874-75. *Phil. Trans. Roy. Soc.* 168 (extra vol.): 302-387. pl. 19-36. 1879.

General features of flora, with geographic relationships; annotated list of species (297 phanerogams, of which 108 are introduced, and 25 vascular cryptogams); vernacular names.

Bouton, Louis. *Plantes médicinales de Maurice*. 2. éd. v, 147 p. 23 cm. Port Louis, 1864. (1st ed., 1857.)

Systematic list of medicinal plants (native and cultivated) with French, English, and native names and uses.

Daruty, Clément. *Plantes médicinales de l'île Maurice et des pays inter-tropicaux*. . . xiii, lxii, 123, xii p. 23.5 cm. Maurice, 1886.

Includes tabular alphabetical list of Creole names of medicinal plants of Mauritius, with botanical, Tamoul, and Hindu names, and uses.

Horne, John. Notes on the flora of Flat Island. *Trans. Roy. Soc. Mauritius* 19: 116-151. 1887. (Preprinted 30 p. 1886.)

General features of flora, naturalized plants; annotated list of 122 vascular plants (of which 69 are indigenous), with vernacular names.

Jacob de Cordemoy, Eugène. *Flore de l'île de la Réunion*. xxvii, 574 p. 24.5 cm. Paris, 1895.

Physiography, climate, general features of flora, history of botanical explorations; annotated list of cellular and vascular plants, with vernacular names, uses, brief synonymy, and often descriptions.

Johnston, H. H. Report on the flora of Ile des Aigrettes, Mauritius. *Trans. and Proc. Bot. Soc. Edinb.* 20: 317-331. 1895.

Physiography; annotated list of 55 vascular plants.

Report on the flora of Les Bénitiers, Mauritius. *Trans. and Proc. Bot. Soc. Edinb.* 20: 331-335. 1895.

Physiography; annotated list of plants from Les Bénitiers, two small rocky islets very close to Mauritius.

Report on the flora of Round Island, Mauritius. *Trans. and Proc. Bot. Soc. Edinb.* 20: 237-264. 1894.

Geography, physiography, relationships and general features of flora, short bibliography; annotated list of 52 plants (of which 41 are vascular), including those found by previous collectors.

Report on the flora of the outlying islands in Mahébourg Bay, Mauritius. *Trans. and Proc. Bot. Soc. Edinb.* 20: 353-374. 1895.

Physiography, etc.; annotated list of 53 plants from Ile de la Passe, Ile Vakois, Ile aux Fouquets, Ile aux Fous, Ile Marianne, Rocher des Oiseaux.

Jumelle, Henri. Réunion. In his *Catalogue descriptif des collections botaniques*. . . *Annales Mus. Colon. Marseille* v. 24 (s. 3, v. 4), fasc. 1, p. 81-112. 1916.

Annotated lists of economic plants, classified according to uses, with vernacular and scientific names (both indexed).

LeClerc, Jules. *Des plantes médicinales de l'île de la Réunion et de leur application à la thérapeutique*. 84 p. 22.5 cm. St. Denis (Réunion), 1864.

Running account of medicinal plants, classified by uses; index of vernacular names only.

NARCONDAM ISLAND

General

Prain, David. On the flora of Narcondam and Barren Island. *Jour. Asiatic Soc. Bengal* 62 (2): 17-86. pl. 3-4 (maps). 1893. (Reprinted in his *Memoirs and memoranda, chiefly botanical*. 1894.)

Physiography, general features of flora, annotated list of 174 species (of which 161 are vascular plants); discussion of nature and origin of flora.

NEW AMSTERDAM AND ST. PAUL ISLANDS

See also Crozet Islands (Schenck).

General

Hemsley, W. B. Amsterdam and St. Paul Islands. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. *Botany*, v. 1, pt. 2, p. 259-281. pl. 39, 41-45, 52. London, 1885 (1884).

Botanical explorations, composition of flora, with table; annotated list of plants (vascular and cellular). Includes 19 phanerogams and 19 pteridophytes.

Reichardt, H. W. Ueber die flora der insel St. Paul im Indischen Ocean. Verhandl. K. K. Zool.-Bot. Gesell. Wien 21: 3-36. 1871.

Physiography, botanical investigations, general features of flora, etc. (with bibliographical footnotes); annotated list of cellular and vascular plants, with local and general range. Includes notes on the neighboring Amsterdam Island with list of its flora (p. 9-11).

Schenck, Heinrich. Ueber flora und vegetation von St. Paul und Neu-Amsterdam. In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1898-1899. v. 2, teil 1, p. 179-218. 14 fig., pl. 11-15. Jena, 1905.

Botanical investigations, physiography, climate, general features of vegetation, phenology, etc.; tabular list of 36 native vascular plants and supplementary lists of introduced ones; geographical relationships.

NICOBAR ISLANDS

See also Andaman Islands (Kloss; Prain, On a botanical visit).

General

Kurz, Sulpiz. A sketch of the vegetation of the Nicobar Islands. Jour. Asiatic Soc. Bengal 45 (2): 105-164. pl. 12-13. 1876.

Geography, geology, soils, plant formations; annotated list of 624 vascular plants.

PRINCE EDWARD ISLANDS

See also Kerguelen Island (Schenck).

Local

Hemsley, W. B. Prince Edward group. Marion Island. In his Report on the botany of the Bermudas and various other islands . . . 2d pt. Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 2, p. 187-206. pl. 53. London, 1885 (1884).

Physiography, general features of vegetation; annotated list of plants (vascular and cellular); extralimital range given. Includes 8 phanerogams and 6 pteridophytes.

Moseley, H. N. On the botany of Marion Island, Kerguelen's Land, and Yong Island of the Heard group. Jour. Linn. Soc. Bot. 14: 387-388. 1874.

List of vascular plants of Marion Island and Yong Island. Followed by a tabular list by D. Oliver, List of plants collected by H. N. Moseley . . . on Kerguelen's Land, Marion Island, and Yong Island, p. 389-390.—For general features of flora, physiography, etc., see Moseley, H. N. Notes on the flora of Marion Island. l. c. 15: 481-486. 1877.

SEYCHELLES

See also Gloriosa Islands; Mascarene Islands (Baker).

General

Summerhayes, V. S. An enumeration of the angiosperms of the Seychelles Archipelago. Trans. Linn. Soc. Zool. 19: 261-299. table. 1931.

Botanical explorations, general features of flora, statistics, phytogeography; list of angiosperms (480 species), with references, localities, and collectors' numbers, and general range.—For the Pteridophyta, see Christensen, C. On the ferns of the Seychelles and the Aldabra group. Trans. Linn. Soc. Bot. II, 7: 409-425. pl. 45. 1912.

Local

Diels, Ludwig. Beiträge zur kenntnis der vegetation und flora der Seychellen . . . In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1898-1899. v. 2, teil 1, p. 407-466. 35 fig., pl. 28-44, map. Jena. 1922.

Bibliography, general description of vegetation; annotated list of vascular plants collected by Deutsche Tiefsee Expedition of 1899.

Hemsley, W. B. Flora of Seychelles and Aldabra: new phanerogamia, chiefly of the Percy Sladen Trust expedition, with some emendations in synonymy. *Jour. Bot.* v. 54, suppl. II. 24 p. 1916; 54: 361-363. 1916.

Critical notes and descriptions of new species; never completed.

SOCOTRA

General

Balfour, I. B. Botany of Socotra. *Trans. Roy. Soc. Edinb.* v. 21. xix, 446 p. 100 pl., map. 1888.

Botanical explorations, physiography, economic plants, phytogeography; annotated list of vascular (584 species) and cellular plants.

——— Botany of Sokotra and Abd-el-Kuri. Angiospermae [and] Pteridophyta. *In* Forbes, H. O., ed. The natural history of Sokotra and Abd-el-Kuri . . . p. 447-542. illus., pl. 26A and B (col.). Liverpool, 1903.

List of collectors; annotated list of 618 angiosperms now known from Sokotra and 61 known from Abd-el-Kuri; annotated list of ferns, mosses, and liverworts of the two areas. Lists of fungi, lichens, seaweeds, and diatoms, in part by other authors, are also given.

Local

Vierhapper, Fritz. Beiträge zur kenntnis der flora Südarabiens und der inseln Sokotra, Sémha und 'Abd el Kûri. Bearbeitung der von Dr. St. Paulay und Professor Dr. O. Simony auf der expedition der Kaiserlichen akademie der wissenschaften . . . von December 1898 bis mitte März 1899 gesammelten gefässpflanzen. I. theil. Gefässpflanzen der inseln Sokotra, Sémha und 'Abd el Kûri. *Denkschr. Math.-Naturw. Kl. K. Akad. Wiss. Wien* 71: 321-490. 35 fig., 17 pl. 1907.

Annotated list of 221 vascular plants, with references, localities, and citations from Balfour and Forbes.

PACIFIC OCEAN

AUSTRALIAN ISLANDS

(Including Antipodes, Auckland, Bounty, Campbell, Chatham, Kermadec, Lord Howe, Macquarie, Norfolk, Snares.)

See also New Zealand (Cheeseman, Manual; Hooker, Handbook; Kirk, The students' flora); Polynesia (Merrill).

Local

Buchanan, John. On the flowering plants and ferns of the Chatham Islands. *Trans. and Proc. New Zeal. Inst.* 7: 333-341. pl. 12-14. 1875.

List of 205 vascular plants, partly annotated, based principally on the collections of H. H. Travers in 1866 and 1871.

Cheeseman, T. F. On the flora of the Kermadec Islands . . . *Trans. and Proc. New Zeal. Inst.* 20: 151-181. 1888.

Physiography, general features of flora, phytogeography, zoology; annotated list of 115 vascular plants; table showing general distribution; list of naturalized plants.

——— On the systematic botany of the islands to the south of New Zealand. *In* Chilton, C. The subantarctic islands of New Zealand. v. 2, p. 389-471. Wellington, 1909.

Refers to Snares, Lord Auckland, Campbell, Antipodes, Bounty, and Macquarie Islands. Geography, botanical explorations; annotated list of vascular plants, with localities; list of naturalized plants; table showing local and general distribution of each species; phytogeography (including table showing local distribution of the 37 vascular plants known from Kerguelen and South Georgia Islands, p. 457), with annotated list of the 53 endemic species. The grasses, omitted in this paper, are treated in the following one, "Gramina of the subantarctic islands . . ." by Donald Petrie, p. 472-481.

——— The vascular flora of Macquarie Island. 63 p. map. 31 cm. Sydney, 1919. (Australasian Antarctic expedition, 1911-14. Scientific reports. Ser. C. v. 7, pt. 3.)

Physiography, climate, botanical explorations, extensively annotated list of vascular plants (34 native) with references, localities, and general range; affinities and origin of flora; bibliography.

Downing, C. T. On Norfolk Island, its character and productions. *Papers and Proc. Roy. Soc. Tasmania* 3: 195-212. 1859. (Reprinted in *Edinb. New Phil. Jour.* n. s., 16: 322-323. 1862.)

Includes (p. 202-207, 210-212) notes on useful plants, wild and cultivated.

Endlicher, S. F. L. *Prodromus florae norfolkicae sive catalogus stirpium quae in insula Norfolk annis 1804 et 1805 a Ferdinando Bauer collectae et depictae nunc in Museo caesareo palatino rerum naturalium Vindobonae servantur.* viii, 130 p. 23.5 cm. Vindobonae, 1833.

List of 152 species, of which 139 are vascular; descriptive flora, with references and frequent annotations.

Hemsley, W. B. The flora of Lord Howe Island. *Annals Bot.* 10: 221-284. 1896.

History, physiography, botanical explorations, general features of flora; list of 209 vascular plants, with references, general range, and occasional annotations; tables showing general range of genera and species; phytogeography; bibliography.

Hooker, J. D. On the botany of Raoul Island, one of the Kermadec group in the South Pacific Ocean. *Jour. Linn. Soc. Bot.* 1: 125-129. 1857 (1856).

Geography, general features of flora; list of 42 plants collected by McGillivray on the voyage of H. M. S. *Herald*.

Kirk, Thomas. On the botany of Antipodes Island. *Trans. and Proc. New Zeal. Inst.* 23: 436-441. 1891.

Physiography, zoology, general features of flora; unannotated list of 55 vascular plants.

— On the botany of the Snares. *Trans. and Proc. New Zeal. Inst.* 23: 426-431. 1891.

Physiography, zoology, general features of flora, with special notes on more important species; unannotated list of vascular plants.

Laing, R. M. A revised list of the Norfolk Island flora, with some notes on the species. *Trans. and Proc. New Zeal. Inst.* 47: 1-39. 1915.

Botanical explorations, present condition of flora, tests for distinguishing indigenous species, plant associations, vegetation of Phillip Island; phytogeography, bibliography; annotated list of 175 vascular plants, with local and general range; includes the plants of Phillip Island.

Maiden, J. H. The flora of Norfolk Island. *Proc. Linn. Soc. N. S. Wales* 23: 692-785. pl. 38. 1904.

Botanical explorations; annotated list of vascular and cellular plants; introduced plants; early accounts of vegetation; bibliography; notes on flora of Phillip Island and Nepean Island.

— Observations on the vegetation of Lord Howe Island. *Proc. Linn. Soc. N. S. Wales* 23: 112-153. pl. 1-4. 1898.—Some further observations on the vegetation of Lord Howe Island. *l. c.* 24: 381-384. pl. 32-33. 1899; 26: 156-158. 1901; 27: 347-351. pl. 15. 1902; 39: 377-384. pl. 28. 1914; 45: 564-566. 1921.

The first paper contains notes on author's visit in 1898 (?), climate, etc.; annotated bibliography; botanical explorations; list of vascular plants, mainly additions to Hemsley's list (1896); introduced plants, etc.; brings flora up to 217 indigenous and 20 introduced species. In vol. 39, p. 379, is a list of plants collected on Admiralty Islets (near Lord Howe Island) by Charles Hedley in September 1908. Titles of various numbers differ.

Mueller, Ferdinand von. The vegetation of the Chatham-Islands. 86 p. 7 pl. 24.5 cm. Melbourne, 1864.

Botanical explorations, phytogeography; annotated list of 87 vascular plants, with references and vernacular names.

Oliver, W. R. B. The vegetation and flora of Lord Howe Island. *Trans. and Proc. New Zeal. Inst.* 49: 94-161. 3 fig., pl. 10-16. 1917.

Physiography, climate, plant formations, origin of flora, phytogeography; annotated list of 209 vascular plants, with reference to records, local and general range; list of introduced plants; annotated bibliography; excluded species.

Oliver, W. R. B. The vegetation of the Kermadec Islands. Trans. and Proc. New Zeal. Inst. 42: 118-175. 1 fig. (map), pl. 12-23. 1910.

Phytogeography, botanical explorations, geology, climate, introduced plants and animals, plant formations, geographical distribution; annotated list of indigenous vascular plants, with general range given; list of introduced plants; bibliography.

Schenck, Heinrich. Vergleichende darstellung der pflanzengeographie der subantarktischen inseln . . . V. Inseln südlich von Neuseeland [Die Snares, Antipoden-, Lord Auckland-, Campbell- und Macquarie-inseln]. In Wissenschaftliche ergebnisse der Deutschen tiefsee-expedition auf dem dampfer "Valdivia" 1898-1899. v. 2, teil 1, p. 130-161. Jena, 1905.

Botanical collectors, bibliography; tabular list of 182 native vascular plants, showing distribution inside and outside the region, with additional lists of introduced species; climate, etc.; general features of flora of each group discussed separately.

BORNEO

See also Dutch East Indies (general works; also Steenis, On the origin).

General

Beccari, Odoardo. Note botaniche e botanico industriali bornensi. Webbia 5: 451-581. 6 fig. 1923.

Annotated lists of useful plants of Borneo, classified by uses; vernacular names indexed.

Merrill, E. D. A bibliographic enumeration of Bornean plants. Jour. Straits Branch Roy. Asiatic Soc. spec. no. 637 p. 1921.

Systematic list of Spermatophyta (4,924 species, considered to be probably only 50 to 60 percent of real total), with references and synonymy, citation of exsiccatae, general range; general features of flora, history of botanical collections.—See also his New or noteworthy Bornean plants I-III. Jour. Straits Branch Roy. Asiatic Soc. 85: 157-201. 1922; 86: 312-342. 1922; Jour. Malay. Branch Roy. Asiatic Soc. 1: 22-45. 1923.—Also his Additions to our knowledge of the Bornean flora, [I]-II. Philippine Jour. Sci. 21: 515-534. 1922; 30: 79-87. 1926.

— A contribution to the bibliography of the botany of Borneo. Sarawak Mus. Jour. 2: 99-136. 1915.

Bibliography of 479 titles.—Additional titles in his "Bibliographic enumeration . . ." p. 2-6. 1921.

Local

Endert, F. H. Lijst van nuttige planten met korte aantekeningen over het gebruik. In Indisch comite voor wetenschappelijke onderzoekingen. Midden-Oost-Borneo expeditie, 1925. p. 292-312. Weltevreden, 1927.

Annotated list, the plants classified by uses.

Gibbs, L. S. A contribution to the flora and plant formations of Mount Kinabalu and the highlands of British North Borneo. Jour. Linn. Soc. Bot. 42: 1-240. 8 fig., 8 pl. (incl. map). 1914.

Annotated list of plants (vascular and cellular) collected in the Provinces of Dent and Keppel, British North Borneo, January to March 1910, by the author; general range given; botanical exploration, orography, meteorology, plant formations; bibliography.

Irmscher, Edgar, ed. Beiträge zur kenntnis der flora von Borneo. Mitt. Inst. Allg. Bot. Hamburg v. 7. 310 p. illus., 10 pl., 2 maps. 1927-37.

Itinerary (by H. Winkler); list of vascular and cellular plants collected by Prof. Hans Winkler in central Borneo along the Melawi and upper Kapuas Rivers in 1924-25, with data; families not in systematic order. Still in process of publication.

Merrill, E. D. The flora of Banguay Island. Philippine Jour. Sci. 29: 341-427. 1 fig. (map). 1926.

Briefly annotated list of about 410 vascular plants from Banguay Island, north of Borneo; general range given; general features of island.

Merrill, E. D. *Plantae elmerianae borneenses*. Univ. Calif. Pub. Bot. v. 15. 316 p. 1929.

Annotated list of about 945 vascular plants collected by A. D. E. Elmer in British North Borneo in 1921-23.

Moulton, J. C. An account of the various expeditions to Mt. Kinabalu. *Sarawak Mus. Jour.* 2: 137-176. 1915.

Extensively annotated list of expeditions to Mount Kinabalu, 1851-1913; general account of region and methods of approach.

Ridley, H. N. Additions to the flora of Borneo and other Malay islands: [I]-XIV. *Bul. Misc. Inform. Kew* 1930: 364-373. 1930; 1931: 33-39, 493-499. 1931; 1933: 190-202. 1933; 1936: 17-21. 1936; 1938: 110-123, 173-175, 175-176, 221-242, 275-285, 306-307. 1938; 1939: 29-31, 275-290, 504-509, 509-517. 1939.

Descriptions of new species and new records, grouped by families, but not in systematic order. Pt. 8 is by S. J. van Ooststroom, pt. 12-14 by H. K. Airy Shaw.

Stapf, Otto. On the flora of Mount Kinabalu, in North Borneo. *Trans. Linn. Soc. Bot. II*, 4: 69-263. pl. 11-20. 1894.

Annotated list of vascular plants (also Muscineae and Hepaticae; 342 phanerogams, of which 199 are endemic); botanical exploration, orography, geology, climate, botanical zones and formations, geographical affinities of flora, tables of distribution.

CELEBES

See also Dutch East Indies (general works; also Koorders-Schumacher; Steenis, On the origin); Molucca Islands (Rant).

Local

Koorders, S. H. Verslag eener botanische dienstreis door de Minahasa, tevens eerste overzicht der flora van n. o. Celebes uit een wetenschappelijk en praktisch oogpunt. *Meded. Lands Plant. Buitenz.* no. 19. xxvi, 716 p. 17 pl. (incl. maps). 1898.—[1.]—3. nachtrag zu meiner enumeratio specierum phanerogamarum Minahassae. *Natuurk. Tijdschr. Nederland.-Indië* 61: 250-261. 1902; 63: 76-89, 90-99. 1904.—Supplement . . . deel 1, afl. 1. 30 p. 10 pl. 26 cm. Batavia, 1918.—Supplement . . . deel 1, afl. 2. *Bul. Jard. Bot. Buitenz.* III, 2: 242-260. pl. 11-13. 1920. (Reprinted as p. 31-50.)—Supplement . . . deel 2-3. Uitgegeven door Mevr. de wed. A. Koorders-Schumacher. 2 v. 127 pl. 29 cm. Buitenzorg, 1922.

Annotated list (p. 253) of 1,375 phanerogams of Minahasa Peninsula, Celebes; general range, vernacular names (indexed), uses; lists of vernacular names and remarks on uses, etc.; geography, physiography (p. viii). The supplements contain mostly new or recently described species. [1. nachtrag] has title *Eenige aanvullingen en verbeteringen van mijn Verslag* . . .

CLIPPERTON ISLAND

General

Snodgrass, R. E., and Heller, Edmund. The birds of Clipperton and Cocos Islands. *Proc. Washington Acad. Sci.* 4: 501-520. 1902.

On p. 516 it is stated that Clipperton Island is "absolutely destitute of vegetation."

COCOS ISLAND

See also Galapagos Islands (Svenson).

General

Robinson, B. L. Plants collected by Messrs. Snodgrass and Heller on Cocos Island of the Pacific. In his *Flora of the Galapagos Islands*. *Proc. Amer. Acad. Arts and Sci.* 38: 261-263. 1902.

Unannotated list of cellular and vascular plants.

Stewart, Alban. Notes on the botany of Cocos Island. *Proc. Calif. Acad. Sci.* IV, 1: 375-404. pl. 31-34. 1912. (Expedition of the California Academy of Sciences to the Galapagos Islands, 1905-06. V.)

Physiography, plant geography, etc.; annotated list of vascular plants (and mosses) based chiefly on collections made by the author in 1905.

DUTCH EAST INDIES

See also Borneo; Celebes; Java; Molucca Islands; New Guinea; Sumatra.

General

Boerlage, J. G. Handleiding tot de kennis der flora van Nederlandsch Indië. Beschrijving van de families en geslachten der Nederl. Indische phanerogamen. 3 v. 22.5 cm. Leiden, 1890-1900.

Descriptive only as to families and genera; species listed at end of each family with statement of range, but without references. No vernacular names. Vol. 1-3, pt. 1, complete the Dicotyledons; no more published.

Cammerloher, Hermann, and others. Contributions à l'étude de la flore des Indes Néerlandaises I-XXXIV. In *Bul. Jard. Bot. Buitenz.* s. 3, v. 5-15. 1923-38.

Revisionary treatments of miscellaneous families, not in systematic order, by various botanists.

Clercq, F. S. A. de. Nieuw plantkundig woordenboek voor Nederlandsch Indië. Met korte aanwijzingen van het nuttig gebruik der planten en hare beteekenis in het volksleven en met registers der inlandsche en wetenschappelijke benamingen . . . xx, 395 p. 28 cm. Amsterdam, 1909.

Alphabetical list of vernacular names (dialects stated in each case) with cross-references to the alphabetically arranged list of scientific names, which is briefly annotated as to uses; additional index of vernacular names of the parts of the plants (fruits, flowers, etc.); systematic list of families and genera mentioned.

Duyster, Marinus. Giftige indische planten en plantenbestanddeelen. 143, xiv p. 24.5 cm. Bandoeng, 1927.

Annotated systematic list of poisonous plants, with vernacular names, chemical properties, etc.

Eeden, F. W. van. Houtsoorten van Nederlandsch Oost-Indië. Tevens beschrijving der meest bekende boomen van den Nederlandsch-Indischen Archipel en hunne waarde voor de huishouding. 3. vermeerderde uitgave bewerkt door J. J. Duyfjes. 341 p. 19.5 cm. Haarlem, 1905 (1906). (1st ed., 1872; 2d, 1886.)

Annotated list of 815 species of trees of the Dutch East Indies, arranged by families, with vernacular names.

Filet, G. J. Plantkundig woordenboek voor Nederlandsch-Indië; met korte aanwijzingen van het geneeskundig- en huishoudelijk gebruik der planten, en vermelding der verschillende inlandsche en wetenschappelijke benamingen. 2. ed. x, 348 p. 22.5 cm. Amsterdam, 1888. (1st ed., 1876.)

Alphabetical list of 9,283 vernacular names (plus additions), with botanical equivalents, indication of locality where used, and notes on uses; index of scientific names. The first edition contained 8,860 names.

Grevelink, A. H. B. Planten van Nederlandsch-Indië bruikbaar voor handel, nijverheid en geneeskunde. vi, xlviii, 871 p. 8 fig. 24 cm. Amsterdam, 1883.

Extensively annotated systematic list of useful plants, both wild and cultivated; brief descriptions, vernacular names, uses. Much less complete than Heyne's work.

Heyne, K. De nuttige planten van Nederlandsch Indië. 2e herziene en vermeerderde druk. 3 v. 27.5 cm. Batavia, 1927. (1st ed., 4 v., 1913-17; rev. ed. (herdruk) vol. 1, 1922.)

Extensively annotated systematic list of useful plants, wild and cultivated, with vernacular names, brief descriptions, uses, commercial details of the more important species; bibliography; synoptical list of species mentioned, classified by uses; indices of scientific and vernacular names.

Internationale circumpacifische onderzoek-commissie. A short history and the present position of botanical investigation in the Dutch East Indies. 22 p. illus. 27 cm. Amsterdam, 1923.

History of botanical exploration and investigation, laboratories, etc.; unannotated list of principal botanical publications, list of periodicals.

Koorders, S. H. Lijst der phanerogamen-geslachten van den Maleischen Archipel (Index generum phanerogamorum Archipelagi Indici). *Natuurkr. Tijdschr. Nederland-Indië* 55: 312-352. 1896.

Systematic tabular list of genera, with indication of habit.

Miquel, F. A. W. *Flora van Nederlandsch Indië (Flora Indiae batavae)*. 3 v. in 4. 41 pl., 2 maps. 24.5 cm. Amsterdam, 1855-59.

Descriptive flora (in Latin, habitat notes in Dutch) covering the spermatophytes; synonymy, references, vernacular names. The area covered extends from the Andaman Islands to northwestern Australia and western and southern New Guinea. Supplement 1 is a flora of Sumatra, here treated separately.

Ochse, J. J., and Bakhuizen van den Brink, R. C. *Vegetables of the Dutch East Indies (edible tubers, bulbs, rhizomes and spices included)*. Survey of the indigenous and foreign plants serving as pot-herbs and side-dishes. xxxvi, 1005 p. 463 fig., col. pl. 27.5 cm. Buitenzorg, 1931.

Annotated list, the families and their species arranged alphabetically, with vernacular names, description, use, references, and figure of each species; index of native vernacular names used in Dutch East Indies outside of Java and Madoera (Madura) Island. An entirely revised and much enlarged edition of Ochse's *Tropische groenten* (1925).

Prillieux, Édouard. *Sur les productions agricoles et forestières des possessions hollandaises des Indes orientales*. *Bul. Soc. Acclim. France* III, 1 [v. 21]: 359-389. 1874. (Reprinted.)

Systematic list of 247 woods exhibited at the Paris Exposition of 1867, with vernacular names and brief annotations.

Pulle, A. A. The vegetation. In Rutten, L. M. R., ed. *Science in the Netherlands East Indies*. p. 164-191 (incl. 2 fig. (ports.), plates). Amsterdam, 1929].

Rather detailed account of botanical investigations, with included bibliography.

Sirks, M. J. *Indische natuuronderzoek . . . Meded. Kolon. Inst. Amsterdam* no. 6, Afd. Handelsmus. no. 2. xi, 303 p. ports. 1915.

Sketch of the development of natural history in the Dutch colonies (Old and New World) with bibliographical footnotes and much biographical information; index to personal names.

Stürler, F. A. von. *De vruchten van Nederlandsch Oost-Indië*. 83 p. 22 fig., 10 pl. 25 cm. Tiel, 1907.

Descriptions of the principal cultivated and wild fruits; bibliography.

Local

Britten, James, and others. *Prodromus florae timorensis*; compiled in the Botanical department of the British Museum. In Forbes, H. O. *A naturalist's wanderings in the eastern archipelago . . . from 1878 to 1883*. p. 497-523. London, 1885.

Botanical explorations, Forbes' itinerary; unannotated list of vascular plants. Polypetalae by J. Britten, Gamopetalae and Apetalae by W. Fawcett, Monocotyledones by H. N. Ridley, Filices by W. Carruthers.

Cardoso, João, jr. *Plantas medicinaes de ilha de Timor*. In his *Subsidios para a materia medica e terapeutica das possessões ultramarinas portuguezas*. v. 1, p. 233-236. Lisboa, 1902.

Unannotated alphabetical list of medicinal plants.

Decaisne, Joseph. *Description d'un herbier de l'île de Timor*. *Nouv. Annales Mus. Hist. Nat. Paris* 3: 333-501. pl. 16-21. 1884. (Reprinted with title: *Herbarii timorensis descriptio . . . 173 p.* Parisii, 1835.)

List of about 550 species of vascular plants, with Latin descriptions; collections, physiography, etc.

Docters van Leeuwen, W. M. *Botanical results of a trip to the Salajar Islands*. *Blumea* 2: 239-277. 1 fig. (map). 1937.—Addenda et corrigenda. l. c. 3: 236-237. 1939.

General features of flora, botanical explorations, geology, climate; unannotated lists of vascular plants of islands of Salajar, Kajoeadi, Bonèrate, Pasitaloe, Kalao, Kalaoa, and Djampéa, south of Celebes, collected by the author in 1913; bibliography.

Krakatau, 1883 to 1933. A. Botany. *Annales Jard. Bot. Buitenz. v.* 46/47. xii, 506 p. 1 fig. (map), 37 pl., map. 1936.

History, changes in vegetation after eruption, comparison with similar areas elsewhere, botanical explorations, soil, means of transport, associations, etc.; annotated lists of galls, mosses, hepatics, and 324 vascular plants; bibliography. Replaces the earlier works of the same author, Ernst, and others.

Docters van Leeuwen, W. M. Die vegetatie der insel Toppers Hoedje in der Sunda-Strasse. *Natuurk. Tijdschr. Nederland-Indië* 94: 149-169. 1934.

Geology, general features of flora; annotated list of 50 vascular plants collected by the author in 1928 and 1932. (Small island between Sumatra and Java.)

— The vegetation of the island of Sebesy, situated in the Sunda-Strait, near the islands of the Krakatau-group; in the year 1921. *Annales Jard. Bot. Buitenz.* 32: 135-192. pl. 36-37 (maps). 1923.

History after eruption of 1883, etc.; briefly annotated list of 359 vascular plants from island of Sebesy, and comparative list of plants of Krakatau (including Verlaten—259 species) and Sebesy; bibliography.

Henderson, M. R. The "padang" flora of Jemala, in the Anamba Islands, N. E. I. *Gard. Bul. Straits Settlm.* 5: 234-240. 1931.

General features of flora; annotated list of plants collected by the author in April 1928.

Junghuhn, Franz. *Plantae junghuhnianae. Enumeratio plantarum, quas in insulis Java et Sumatra detexit Fr. Junghuhn.* 522 p. 23.5 cm. Lugduni-Batavorum, 1853-55 [1851-57].

List of vascular and cellular plants collected by Junghuhn, with description of new species and various critical remarks and annotations. Issued in 4 parts; descriptions by Miquel and others.

Koorders-Schumacher, Anna. Systematisches verzeichnis der zum herbar Koorders gehörenden, in Niederländisch-Ostindien, besonders in den jahren 1888-1903 gesammelten phanerogamen und pteridophyten nach den original-einsammlungsnotizen und bestimmungs-etiketten, unter der leitung von Dr. S. H. Koorders zusammengestellt. II.—V. Abt. Sumatra, Celebes, Lombok . . . 62, 160 p. 24.5 cm. Buitenzorg, 1910-14.

Several systematic lists, in part annotated, of plants of the Koorders herbarium, as follows: Sumatra (several lists for different regions; phanerogams only); Celebes (vascular plants); Lombok and other islands (mainly references to other lists; no proper list of species).

Kurz, Sulpiz. Korte schets der vegetatie van het eiland Bangka. *Natuurk. Tijdschr. Nederland-Indië* 27: 142-258. 1864.

Plant formations, climate, etc.; annotated list of phanerogams (959 species); separate list of vernacular names. German translation by J. K. Hasskarl of introductory pages (143-156) in *Bot. Zeit.* 23: 6-8, 15-19. 1865.

Lam, H. J. Miangas (Palmas). Scattered annotations . . . 66 p. 20 fig. and 3 maps on 11 pl., 1 tab. 26.5 cm. Batavia, 1932. (Indisch comité voor wetenschappelijke onderzoekingen Batavia VI.)

Topography, geology, general features of flora and fauna, history, etc.; list of 88 vascular plants collected by the author in 1926, with vernacular names and general range; bibliography. Miangas or Palmas Island, the northernmost of the Talaud (Talaur) Islands, is in about 5°33' N. Lat., 126°34' E. Long.

Malm, Jacob von. Die phanerogamenflora der Kleinen Sunda-inseln und ihre beziehungen. *Repert. Spec. Nov. Fedde* 34: 255-307. 1934.

Geology, climate, plant formations; partial list of spermatophytes collected by the Rensch expedition in 1927 and the Elbert expedition in 1909 on Lombok, Sumbawa, and Flores (the species of wide range omitted); phytogeography, bibliography.

Rendle, A. B., and others. Dr. H. O. Forbes's Malayan plants. *Jour. Bot.* 62 (Suppl.): 1-48. 1924; 63 (Suppl.): 49-136. 3 fig. 1925; 64 (Suppl.): 137-149. 1 fig. 1926.

List of vascular and cellular plants collected by H. O. Forbes in Java and Sumatra in 1873-83, with localities, collecting numbers, and frequent annotations. Polypetalae by E. G. Baker, Gamopetalae and Monochlamydeae by S. LeM. Moore, Monocotyledones by H. N. Ridley, Pteridophyta by A. Gepp (also Bryophyta and Lichenes by other authors).

Spanoghe, J. B. *Prodromus florum timorensis.* *Linnaea* 15: 161-208, 314-350, 476-480. 1841.

List of 914 phanerogams, with references and occasional localities. Gramineae, Cyperaceae, and some other families are omitted.

Steenis, C. G. G. J. van. Botanical results of a trip to the Anambas and Natoena Islands . . . with notes on the vegetation of Djemadja by M. R. Henderson. *Bul. Jard. Bot. Buitenz. III*, 12: 151-211. 11 fig. (incl. map), pl. 1932.

Geography, geology, climate, botanical explorations, plant formations, phytogeography, classified list of useful wild and cultivated plants; no systematic list of flora. These islands form the Poelau Toedjoeh and are situated in the center of the Sunda Shelf in the South China Sea between 3° and 4° N. and 106° and 109° E.

— On the origin of the Malaysian mountain flora. *Bul. Jard. Bot. Buitenz. III*, 13: 135-262, 289-417. 10 fig. (incl. maps), tab., 2 maps. 1934-35; 14: 56-72. 1936.

Mainly phytogeographical; includes (p. 155-260) list of Malaysian mountain species of temperate genera of mosses, hepatics, and vascular plants, with list of localities and altitudinal range, the families arranged alphabetically. Covers Malay Peninsula, islands from Sumatra to New Guinea, and Philippine Islands.

Teysmann, J. E. Verslag eener botanische reis over Timor en de daaronder ressorteerende eilanden Samauw, Alor, Solor, Floris en Soemba. *Natuurk. Tijdschr. Nederland-Indië* 34: 348-517. 1874.

Includes (p. 486-515) list of vernacular names, with botanical equivalents and brief account of useful plants.

FIJI ISLANDS

See also Polynesia (general works).

General

Horne, John. List of plants found in Fiji. *In his A year in Fiji . . .* p. 256-284. London, 1881.

Alphabetical lists of spermatophytes and pteridophytes known from Fiji, with indication if endemic or introduced. For descriptions and reductions of some of the many new species indicated, see Baker, J. G. Recent additions to our knowledge of the flora of Fiji. *Jour. Linn. Soc. Bot.* 20: 358-373. 1883.

Seemann, Berthold. *Flora vitiensis: a description of the plants of the Viti or Fiji Islands, with an account of their history, uses, and properties.* xxxiii, 453 p. 100 pl. (incl. map, pl. 3-100 col.). 32 cm. London, 1865-73.

Descriptive flora of vascular and cellular plants, including cultivated species (descriptions in Latin, annotations in English); vernacular names (not indexed); botanical exploration, physiography, general features of flora, list of endemic forms, etc.—For descriptions of many new species from the islands, see Gillespie, J. W. New plants from Fiji I-III. *Bul. Bern. P. Bishop Mus.* 74. 99 p. 57 fig., pl. 1930; 83. 72 p. 40 fig., pl. 1931; 91. 81 p. 43 fig. 1932.—Also Smith, A. C. *Fijian plant studies.* 1. c. 141. 166 p. 83 fig. 1936.

— Viti: an account of a government mission to the Vitian or Fijian Islands in the years 1860-61. xv, 447 p. illus., 4 pl., map. 22.5 cm. Cambridge, 1862.

Includes chapters (p. 274-380) dealing with useful plants.

Wright, C. H. A list of Fijian plant names. *Bul. Dept. Agr. Fiji* no. 9 (i. e. 10). 10 p. 1918.—Errata and addenda. *Agr. Cir. Dept. Agr. Fiji* 1: 59-60. 1920.

Alphabetical list of vernacular names with botanical equivalents, including all those previously recorded.—See also Parham, [H. B. R.]. Names of a few Fijian plants and their botanical equivalents. 13 p. Suva, [1935].

Local

Gibbs, L. S. A contribution to the montane flora of Fiji (including cryptogams), with ecological notes. *Jour. Linn. Soc. Bot.* 39: 130-210. 1 fig. (map), pl. 11-16. 1909.

Annotated list of plants collected by author in 1907, mostly at Nadarivatu, Mount Victoria Range, island of Viti Levu; general range given; physiography and climatology of Viti Levu, botanical explorations, affinities of flora, bibliography.

Turrill, W. B. A contribution to flora of Fiji. *Jour. Linn. Soc. Bot.* 43: 15-39. 1915.

Annotated list of phanerogams collected by Sir Everard im Thurn in 1905-07.

GALAPAGOS ISLANDS

General

Robinson, B. L. Flora of the Galapagos Islands. Proc. Amer. Acad. Arts and Sci. 38: 77-269. 3 pl. 1902. (Contr. Gray Herb. n. s., no. 24.)

Botanical collections, bibliography; systematic list, with pertinent synonymy, exsiccatae, extralimital range, frequent annotations; tables of botanical collections, distribution of species by islands (vascular plants); general features of flora, botanical features of each island, origin of flora. Treatment of cellular cryptogams by W. G. Farlow (except Hepaticae, by A. W. Evans).

Stewart, Alban. A botanical survey of the Galapagos Islands. Proc. Calif. Acad. Sci. IV, 1: 7-252. pl. 1-19 (incl. map). 1911.

Similar in plan to the flora by Robinson and supplementary to it; vascular plants only. The plates are mostly of cacti. The general features of the vegetation on each island are discussed by the author in "Some observations concerning the botanical conditions on the Galapagos Islands." Trans. Wisc. Acad. Sci. 18 (1): 270-340. 1915.

Local

Christophersen, Erling. A collection of plants from the Galapagos Islands. Nyt Mag. Naturvidensk. 70: 67-95. pl. 1931 (1932).

Recent botanical explorations; adds about 19 species to the flora of the islands, based principally on a collection made by Miss Borghild Rorud (Mrs. Rambech) in 1926-27.

Svenson, H. K. Plants of the Astor expedition, 1930 (Galapagos and Cocos Islands). Amer. Jour. Bot. 22: 208-277 (incl. 9 pl.). 1935. (Brooklyn Botanic Garden Contribution no. 69.)

General features of flora, etc.; annotated list of vascular plants collected, including several new to the Galapagos Islands and two new to Cocos Island.

HAWAIIAN ISLANDS

See also Polynesia.

The following publication has not been available:

Kaaiakamanu, D. M., and Akina, J. K. Hawaiian herbs of medicinal value, found among the mountains and elsewhere in the Hawaiian Islands, and known to the Hawaiians to possess curative and palliative properties most effective in removing physical ailments. Translated by Akaiko Akana . . . 74 p. 8°. Honolulu, 1922. (Not seen; cited from Merrill, E. D. Polynesian botanical bibliography, p. 110.)

General

Bryan, E. H., jr. Hawaiian nature notes. 285 p. illus. (incl. maps). 22.5 cm. Honolulu, 1933.

Includes (p. 81-87) chapter on "Food plants of the ancient Hawaiians," with bibliography.

Bryan, W. A. Natural history of Hawaii; being an account of the Hawaiian people, the geology and geography of the islands, and the native and introduced plants and animals of the group. 596 p. (incl. 117 pl.). Honolulu, 1915.

General sketch of the flora, p. 189-230, with small and very crowded photographs of many species; botanical bibliography, p. 508.

Crawford, D. L. Hawaii's crop parade. A review of useful products derived from the soil in the Hawaiian Islands, past and present. 305 p. 24 cm. Honolulu, 1937.

Annotated list of wild and cultivated plant products, alphabetically arranged by vernacular names.

Degener, Otto. Flora hawaiiensis, or the new illustrated flora of the Hawaiian Islands. Book I-III. illus. (pt. col.). 24 cm. [Honolulu,] 1932-33.

Descriptive flora, with vernacular names, synonymy, type locality, local and general range, uses. Issued in loose-leaf form, unpagged; each species occupying a separate sheet (dated), with illustration on verso. In process of publication.

Forbes, C. N. Notes on the naturalized flora of the Hawaiian Islands. Occas. Papers Bern. P. Bishop Mus. 4: 323-334 (no. 5, p. 23-34). 1911.

Annotated list of introduced vascular plants, most of which are not mentioned in Hillebrand's Flora (1888).

Fosberg, F. R. A key to the families of monocotyledons in the Hawaiian Islands. Occas. Papers Univ. Hawaii no. 18. 8 p. 1934.—St. John, Harold, and Fosberg, F. R. Identification of Hawaiian plants. A key to the families of dicotyledons . . . l. c. no. 36. 53 p. [1933.]

Keys to families; alphabetical list of families, each with botanical characters and alphabetical list of genera.

Heller, A. A. Observations on the ferns and flowering plants of the Hawaiian Islands. Minn. Bot. Studies 1 (Bul. 9, Geol. and Nat. Hist. Survey Minn. Bot. Ser. II): 760-922. pl. 42-69 (incl. 2 maps). 1897.

Geography, physiography; annotated list of species, with many critical notes. To be taken as supplementary to Hillebrand's Flora.

Hillebrand, William. Flora of the Hawaiian Islands; a description of their phanerogams and vascular cryptogams. xevi, 673 p. pl., map. 22 cm. London and New York, 1888.

Geography, physiography, life zones; outline of descriptive botany; descriptive flora of vascular plants (999 species, of which 653 are endemic), with synonymy, references, and vernacular names.

Judd, A. F. Trees and plants. *In* Ancient Hawaiian civilization. A series of lectures delivered at the Kamehameha schools. p. 273-281. Honolulu, [1933].

Tabular list of useful plants, alphabetically arranged by vernacular names, with botanical names and uses.

MacCaughy, Vaughan. History of botanical exploration in Hawaii. Hawaiian Forester and Agr. 15: 388-396, 417-429, 508-510. 1918; 16: 25-28, 49-54. 1919.

Chronological sketch of botanical exploration and botanists, brief biographical sketches, bibliography.

— A survey of the Hawaiian land flora. Bot. Gaz. 64: 90-114. 5 fig. (incl. map). 1917.

A brief but useful summary of the flora.

Neal, M. C. Plants used medicinally. *In* Handy, E. S. C., and others. Outline of Hawaiian therapeutics. Bul. Bern. P. Bishop Mus. 126: 39-49. 1934.

Unannotated list, arranged alphabetically by vernacular names, with botanical equivalents and references; bibliography.

Pope, W. T. Manual of wayside plants of Hawaii. Including illustrations, descriptions, habits, uses and methods of control of such plants as have a wild nature of growth, exclusive of ferns. 289 p. 160 fig. 23.5 cm. Honolulu, 1929.

Annotated, descriptive systematic list of Hawaiian weeds; bibliography.

Rock, J. F. C. The indigenous trees of the Hawaiian Islands. 518 p. 215 fig. 26.5 cm. Honolulu, 1913.

Life zones, forest regions, floral aspects; descriptive flora of woody plants, with synonymy, references, extensive annotations, and photographs, mostly from fresh or living specimens; vernacular names (separately indexed).

— List of Hawaiian names of plants. Bot. Bul. Bd. Agr. and Forestry Hawaii no. 2. 20 p. 1913.

Alphabetical lists of vernacular names of wild plants, introduced plants, Algae, etc., with botanical equivalents.

— The poisonous plants of Hawaii. Hawaiian Forester and Agr. 17: 59-62, 97-101. 1920.

Annotated list.—See also Zschokke, T. C. Poisonous plants now found in the Hawaiian Islands. Agr. Notes Agr. Ext. Serv. Univ. Hawaii no. 49. 4 p. 1933. (Processed publication.)

Wilder, G. P. Fruits of the Hawaiian Islands. rev. ed. 247 p. (incl. 121 pl.). 26.5 cm. Honolulu, 1911.

Photographic plates, with brief descriptions and remarks, of 121 native and naturalized fruits of the Hawaiian Islands.

Local

Bitter, Georg. Ergebnisse einer reise nach dem Pacific (Prof. Dr. Schauinsland 1896/97). Die phanerogamische pflanzenwelt der insel Laysan. Abhandl. Naturw. Ver. Bremen 16: 430-439. pl. 4. 1900.

Annotated list of 26 vascular plants; phytogeographical relationships.—See also Schauinsland, H. H. Drei monate auf einer koralleninsel (Laysan). 104 p. 23 cm. Bremen, 1899. (Annotated list of 27 vascular plants, p. 93-100.)

Caum, E. L. Notes on the flora and fauna of Lehua and Kaula Islands. Occas. Papers Bern. P. Bishop Mus. v. 11, no. 21. 17 p. (incl. 1 fig., 3 pl.). 1936.

General features of flora; annotated list of 35 vascular plants; also list of birds.

—— Notes on the flora of Molokini. Occas. Papers Bern. P. Bishop Mus. 9 (1): 15–18. 1930.

Botanical explorations; list of vascular plants; changes in vegetation.

Christophersen, Erling. Vascular plants of Johnston and Wake Islands. Occas. Papers Bern. P. Bishop Mus. v. 9, no. 13, 20 p. (incl. 3 fig. (maps), 5 pl.). 1931. (Tanager expedition publication no. 6.)

Physiography, general features of flora; annotated list of vascular plants.

—— and Caum, E. L. Vascular plants of the Leeward Islands, Hawaii. Bul. Bern. P. Bishop Mus. 81. 41 p. 3 fig. (maps), 16 pl. 1931. (Tanager expedition publication no. 7.)

Physiography, general features of flora of each island with list of its species; annotated list of vascular plants, with localities and collectors' numbers; bibliography.—See also St. John, H. Additions to the flora of Midway Islands. (Hawaiian plant studies 3.) Occas. Papers Bern. P. Bishop Mus. v. 11, no. 14. 4 p. 1935.

Degener, Otto. Illustrated guide to the more common or noteworthy ferns and flowering plants of Hawaii National Park, with descriptions of ancient Hawaiian customs and an introduction to the geologic history of the islands. xv, 312 p. 95 fig. 23.5 cm. Honolulu, 1930.

Not a flora, but contains running accounts of the more interesting or striking plants with ethnological and other information and vernacular names. The park is on the islands of Hawaii and Maui.

Forbes, C. N. An enumeration of Niihau plants. Occas. Papers Bern. P. Bishop Mus. 5: 99–108 (no. 3, p. 17–26). 3 pl., map. 1913.

List of vascular plants collected by the author in 1913.—See also St. John, H. Additions to the flora of Niihau. l. c. v. 9, no. 14. 11 p. (incl. 3 pl.). 1931.

—— Notes on the flora of Kahoolawe and Molokini. Occas. Papers Bern. P. Bishop Mus. 5: 85–92 (no. 3, p. 3–10). 5 pl. (incl. 2 maps). 1913.

List of vascular plants collected by the author in 1913.

Hosaka, E. Y. Ecological and floristic studies in Kipapa Gulch, Oahu. Occas. Papers Bern. P. Bishop Mus. 13: 175–232. 18 fig. (incl. map). 1937.

Includes list of bryophytes and vascular plants; bibliography. This locality is in the Koolau Range, near Pearl Harbor.

Kraebel, C. J. Mauna Kea plant list. Hawaiian Forester and Agr. 19: 2–4. pl. 1925.

Alphabetical list of botanical names, with English and Hawaiian vernacular names, covering the plants seen from Kuaia to about 10,000 feet altitude, with indication of habit, etc.

St. John, Harold, and Hosaka, E. Y. Weeds of the pineapple fields of the Hawaiian Islands. Res. Pub. Univ. Hawaii no. 6. 196 p. illus. 1932.

Descriptive systematic list, with figures of each species.

Skottsberg, Carl. Remarks on the flora of the high Hawaiian volcanoes. Acta Horti Gothoburg. 6: 47–65. 1931.

Includes annotated list of alpine and subalpine species.

—— Vascular plants from the Hawaiian Islands. I–II. Acta Horti Gothoburg. 2: 185–284. 9 fig. 1926; 10: 97–193. 23 fig. 1936.

Annotated lists of species collected by the author, with numerous critical notes.

JAVA

See also Dutch East Indies (general works; also Junghuhn; Rendle; Steenis, On the origin).

The following publication has not been available:

Koorders, S. H. Flora van Tjibodas, umfassend die blütenpflanzen, welche in der botanischen Tjibodas-waldreserve und oberhalb derselben auf den West-Javanischen vulkanen Pangerango und Gede wildwachsend vorkommen. 5 lfg. Batavia, 1918–19. (Cited from Tectona 13: 473. 1920.)

General

Backer, C. A. Handboek voor de flora van Java. v. 1-3. 27 cm. Batavia, 1924-28.

Descriptive flora of vascular plants, with keys, synonyms, vernacular names; the treatment of the species in form of keys. Pt. 3 (issued in 1924) takes the work through Musaceae-Heliconia (Engler-Prantl system).

Plantes exotiques naturalisées dans Java. Annales Jard. Bot. Buitenz. Suppl. 3 (1): 393-420. 1910.

Annotated alphabetical list of 153 species.

Schoofflora voor Java. (Ranunculaceae—Myrtaceae.) clxxix, 676 p. 12 pl. 23.5 cm. Weltevreden, 1911.

A flora in the form of ample keys, with vernacular names (indexed) and glossaries.

Boldingh, Isaac. Zakflora voor de landbouwstreken op Java. xvii, 204 p. 21.5 cm. Batavia, 1916.

Pocket flora in the form of keys, treating the vascular plants of the cultivated regions of Java.

Junghuhn, Franz. Die pflanzendecke. Das pflanzenreich Java's vom physiognomischen und physischgeographischen gesichtspunkte betrachtet. In his Java, seine gestalt, pflanzendecke und innere bauart. Nach der 2. verb. aufl. des holländischen original in's deutsche übertragen von J. K. Hasskarl. v. 1, p. 133-483. Leipzig, 1857.

General features of vegetation, plant formations, etc., with partly annotated bibliography (p. 133-148).

Koorders, S. H. Exkursionsflora von Java, umfassend die blütenpflanzen mit besonderer berücksichtigung der im hochgebirge wildwachsenden arten. 3 v. 139 fig., 19 pl., 4 maps and atlas (v. 4) of 1313 (i. e. 1110) fig. 26 cm. Jena, 1911-37.

Descriptive flora of Spermatophyta, with descriptions mostly in form of keys, local and extralimital range, vernacular names. The atlas, never completed, covers Cycadaceae-Ranunculaceae, and Leguminosae (part); Abt. 6 not published.—For Pteridophyta, see Backer, C. A., and Posthumus, O. Varenflora voor Java. 370 p. 81 fig. Buitenzorg, 1939. (Not seen.)

Plantkundig woordenboek voor de boomen van Java med korte aantekeningen over de bruikbaarheid van het hout. Meded. Lands Plant. Buitenz. no. 12. xx, 173 p. 1894.

Systematic list of trees, with vernacular names (separately indexed) and brief annotations.

and Valetton, Theodoric. Bijdrage no. 1 [-10] tot de kennis der boomsoorten van (op) Java. (Additamenta ad cognitionem florum arborearum javanicarum.) Meded. Lands Plant. Buitenz. no. 11. 363 p. 1894; no. 14. 228 p. 1895; no. 16. 320 p. 1896; no. 17. 328 p. 1896; no. 33. 464 p. 1900; no. 40. [201] p. 1900; no. 42. 231 p. 1900; no. 59. 285 p. 1902; no. 61. 407 p. 1903; no. 68. 287 p. 1904.—no. 11-13. Meded. Dep. Landb. [Nederl.-Indië] no. 2. 277, 12 p. 1906; no. 10. 782 p. 1910; no. 18. 286 p. 1914.—Atlas der boomarten van Java im anchluss an die "Bijdragen tot de kennis der boomsoorten van Java." 4 v. (16 lfg.). 800 pl. 26 cm. Leiden, 1913-18.

Revisory treatments of families of woody plants, in Dutch and Latin; general index to vernacular and botanical names in pt. 13.

Vorderman, A. G. Javaansche geneesmiddelen. Geneesk. Tijdschr. Nederland.-Indië 34: 269-343. 1894.

Bibliography; briefly annotated list of 130 drug plants, alphabetically arranged by vernacular names, with botanical and Chinese names and references to literature; indices.

Local

Backer, C. A. Flora van Batavia. Deel I. Dicotyledones dialypetalae (Thalamiflorae en Disciflorae). xvi, 405, 25, 18 p. 26.5 cm. Batavia, 1907. (Mededeelingen uitgaande van het Departement van Landbouw no. 4.)

Descriptive flora of the vicinity of Batavia, Java, with keys and vernacular names (separately indexed).

Onkruidflora der javasche suikerrietgronden. afl. 1-5 (8, lxxvii, 907 p.). map and atlas, afl. 1-12 (pl. 1-384). 25 cm. Soerabaya, 1923-38. (Handboek ten dienste van de suikerrietcultuur en de rietsuiker-fabricage op Java, 7. deel.)

Full descriptions, with vernacular names and keys to genera and species, of the weeds of Javan sugar fields; habit figures, with occasional details, of each species. Text completed, but plates still in process of publication.

Backer, C. A., and Slooten, D. F. van. Geïllustreerd handboek der javaansche theekonruiden en hunne beteekenis voor de cultuur. 47 p. 240 pl., map. 24 cm. Batavia, 1924.

Annotated descriptive account of weeds of teafields, with vernacular names, keys, and with plate of each species. Includes most of the widespread weeds of the Tropics of the Old World.

Buitenzorg. Jardin botanique. Flore de Buitenzorg. v. 1-6. illus., plates. 26 cm. Leiden, 1898-1922.

Descriptive flora, with keys, in German. Of the 6 parts so far published, the only ones relating to vascular plants are vol. 1, Pteridophyta, by M. Raciborski, and vol. 6 (in 2 parts, text and plates), Orchidaceae, by J. J. Smith.

Clason, E. W. The vegetation of the Upper-Badak region of Mount Kelut (East Java). Bul. Jard. Bot. Buitenz. III, 13: 509-518. pl. 5-6. 1935.

Topography, volcanic history, general features of vegetation; list of vascular and cellular plants, annotated by symbols, and grouped by size and habit.

Docters van Leeuwen, W. M. Beitrag zur kenntnis der gipfelvegetation der in Mittel-Java gelegenen vulkane Soembing und Sindoro. Bul. Jard. Bot. Buitenz. III, 11: 28-56. 2 fig., pl. 4-13. 1930.

Includes annotated list of vascular and cellular plants occurring above 2,400 meters elevation.

Biology of plants and animals occurring in the higher parts of Mount Pangrango-Gedeh in West-Java. Verhandl. K. Akad. Wetensch. Amsterdam Afd. Natuurk., 2. Sect., v. 31. 278 p. 66 fig., 30 pl., fold. tab. 1933.

Includes account of botanical explorations, with footnote references (p. 1-22), and annotated systematic lists of plants from the higher parts of Mount Pangrango-Gedeh (p. 143-250) and from other mountain tops and the vicinity of Tjibodas (p. 251-268).

Über die erneuerung der verbrannten alpinen flora des Merbaboegebirges in Zentral-Java. Ber. Deut. Bot. Gesell. 31: 151-157. 3 fig. 1913.

Includes lists of alpine species collected before and after the big fire of 1912.

Elbert, J. E. W. Ueber die zonare verbreitung der vegetation auf den Lawuvulkan Mittel-Javas. Meded. Rijks Herb. Leiden no. 12. 31 p. 1912.

List by H. Hallier (p. 7-31) of vascular plants and 1 lichen collected by Elbert on Mount Lawu, with altitudes and general range.

Koorders, S. H. Floristischer überblick über die blütenpflanzen des urwaldes von Tjibodas auf dem Vulkan Gede in West-Java nebst einer nummerliste und einer systematischen übersicht der dort für botanische untersuchungen von mir nummerierten waldbäume. Bot. Jahrb. Engler 50 (Suppl.): 278-303. 1914.

General features of flora, etc.; unannotated systematic list of trees.

Verslag van eene dienstreis naar de Karimon-djawa-eilanden. Natuurk. Tijdschr. Nederland-Indië 48: 20-132. pl., map. 1889.

Bibliography, topography, general features of botany and zoology, annotated list of useful plants collected on the different islands of the group, zoology, geology. The islands lie north of Djapara, Java.

Versuch einer arten-aufzählung der hochgebirgsflora von Tosari und Ngadisari. His Notizen über die phanerogamenflora von Java. II-III, V. Natuurk. Tijdschr. Nederland-Indië 60: 241-280, 370-374. 1901; 62: 213-266. 1903.

Botanical explorations; annotated list of 342 vascular plants, with vernacular names and brief descriptions, the families arranged alphabetically.

Koorders-Schumacher, Anna. Systematisches verzeichnis der zum herbar Koorders gehörenden, in Niederländisch-Ostindien, besonders in den jahren 1888-1903 gesammelten phanerogamen und pteridophyten nach den original-einsammlungsnotizen und bestimmungs-etiketten, unter der leitung von Dr. S. H. Koorders zusammengestellt. I. Abt. Java. v. p. 24.5 cm. Buitenzorg, 1910-13.

Systematic list of vascular plants collected by Koorders, with localities, collecting numbers and occasional annotations. Numerous separate pagings, mostly by families.

Penzig, Otto. I prodotti vegetali del mercato di Buitenzorg (Giava). Atti Soc. Ligust. Sci. Nat. e Geog. 9: 405-429. 1899.

Descriptive account of useful plants sold in the bazar of Buitenzorg.

Pijl, Leendert van der. The re-establishment of vegetation on Mt. Goentoe (Java). *Annales Jard. Bot. Buitenz.* 48: 129-152. pl. 19-20. 1938.

History of eruptions which destroyed the flora and the process of revegetation, etc.; tabular list of known cellular and vascular plants; bibliography.

Rock, J. E. The forest of Mt. Gedah, West Java. *Hawaiian Plant. Rec.* 22: 67-104. illus. 1920.

General features of flora, life zones, very brief synoptical list of more important plant families and their principal representatives.

Schmucker, Theodor. Beiträge zur kenntnis der hochgebirgsflora Javas und zur theorie der pflanzenausbreitung. *Beih. Bot. Centralbl.* 2. Abt. 43: 34-68. 1926.

Mainly phytogeographic; contains (p. 65-67) list of species known in Java above 2,500 meters elevation; bibliography.

Smith, J. J. Een botanische reis naar de Duizend-eilanden. *Teysmannia* 18: 450-456. 1907.

Annotated alphabetical lists of vascular plants collected by author in December 1906, on Poeloe Paniki, Poeloe Pendjaliran, and Poeloe Doea. (Thousand Islands, north of Java near its western end.)

Steenis, C. G. G. J. van. Schets van de flora van het eiland Dapoer (Duizend Eilanden). *Trop. Natuur* 24: 31-34. 6 fig. (incl. map). 1935.

Running account of plants observed.

Vorderman, A. G. Inlandsche namen van eenige Madoereesche planten en simplicia. . . *Natuurk. Tijdschr. Nederland-Indië* 59: 140-197. 1900.

Madoera (Madura) language (by H. N. Kiliaan), botanical glossary; annotated alphabetical list of 408 vernacular names; index of botanical names.

JUAN FERNANDEZ ISLANDS

See also Polynesia (Merrill).

General

Hemsley, W. B. Juan Fernandez and Masafuera. In his Report on the botany of Juan Fernandez. . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. *Botany.* v. 1, pt. 3, p. 1-96. pl. 54-63. London, 1885 (1884).

Physiography, botanical exploration, general features of vegetation, tabular analysis of flora, extinct species, etc.; annotated list of plants (vascular and cellular). Includes 124 phanerogams and 44 pteridophytes.

Johow, Friedrich. Estudios sobre la flora de las islas de Juan Fernandez. xi, 287 p. 8 fig., 18 pl., 2 maps. 32.5 cm. Santiago de Chile, 1896.

Geography and geology (by Roberto Pöhlmann), botanical explorations, bibliography; annotated list of vascular and cellular plants; evolution of the flora, statistical tables, plant formations, etc.

Skottsberg, Carl. The phanerogams of the Juan Fernandez Islands. In his The natural history of Juan Fernandez and Easter Island. v. 2, Botany, pt. 2, no. 7. p. 95-240. 39 fig., pl. 10-20 (1 col.). Uppsala, 1922. (Preprint, 1921.)

Enumeration of the indigenous (142 species) and introduced (130 species) phanerogams, with references, localities, general range, and critical notes; general features of flora; bibliography.—See also Christensen, C., and Skottsberg, C. The Pteridophyta of the Juan Fernandez Islands. l. c. pt. 1, no. 1. p. 1-46. 7 fig., pl. 1-5. 1920. (List of 51 Pteridophyta, with references, localities, and critical notes).—For additions, see his Notes on some recent collections made in the islands of Juan Fernandez. *Acta Horti Gothoburg.* 4: 155-171. illus. 1929.

MELANESIA

See also New Caledonia; New Guinea; Polynesia (Endlicher; Guppy; Jouan; Merrill).

Local

Beck-Mannagetta, Günther. Flora des Stewart-atolls im Stillen Ocean. *Annalen K. K. Naturhist. Hofmus. Wien* 3: 251-256. 1888.

General features of flora; list of 17 plants (14 vascular) collected on the voyage of the *Novara* in 1858. The atoll, also known as Sikéiana (Sikai Anna),

8°22' S. Lat., 162°58' E. Long., is just east of the Solomon Islands. The specimens were collected on Faule or Small Island, one of the 4 composing the atoll.

Bradtke, W. The flora of a small tropical island . . . With a foreword by C. T. White. Queensland Nat. 2: 133-135. 1921.

List of 22 vascular plants collected on a small coral island in the Duke of York Islands, Bismarck Archipelago, with vernacular names.

Burkill, I. H. On a collection of plants from New Britain (Neu Pommern). Proc. Cambridge Phil. Soc. 9: 90-97. 1896.

Botanical explorations, etc.; list of vascular plants collected in 1875 by Baron A. von Hügel; bibliography. Known flora is about 160 species.

Guillaumin, André. Contribution à la flore des Nouvelles-Hébrides I-III. Bul. Soc. Bot. France 66: 267-277. 1920; 74: 693-712. 1928; 76: 298-303. 1929.

Part I consists of a list of 111 vascular plants collected on the island of Efate (Vaté or Sandwich) by Levat in 1883, with localities and vernacular names; the number previously known was 13. Part II is a list of those now known from the New Hebrides, including Banks and Torres Islands (312 species and varieties), with localities and names of collectors; bibliography, briefly annotated list of collectors. Part III. Supplément aux plantes recueillies par M. Levat.—For additions see his Contribution to the flora of the New Hebrides. Plants collected by S. F. Kajewski in 1928 and 1929. Jour. Arnold Arboretum 12: 221-264. 3 fig. (incl. map). 1931; 13: 1-29, 81-126. 3 fig., pl. 43. 1932; 14: 53-61. 1933.—Also his Contribution à la flore des Nouvelles-Hébrides. Plantes recueillies par M. et Mme. Aubert de la Rüe en 1934 (phanérogames). Bul. Soc. Bot. France 82: 346-354. 1 fig. (map). 1935.

— A florula of the island of Espiritu Santo, one of the New Hebrides. Jour. Linn. Soc. Bot. 51: 547-566. 1938.

Climate, botanical explorations, list of plants previously collected; list of vascular plants collected by Ina Baker and Mrs. Zita Baker in 1933-34; bibliography.

Guppy, H. B. The Solomon Islands and their natives. xvi, 384 p. plates (incl. map). 25.5 cm. London. 1887.

Contains, p. 294-304, an annotated "List of plants collected in the islands of Bougainville Straits, Solomon group, during 1884," with vernacular names.

Hemsley, W. B. The Admiralty Islands. In his Report on the botany of Juan Fernandez . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 3, p. 227-275. London, 1885.

Physiography, general features of flora, table of distribution; annotated list of vascular and cellular plants (69 phanerogams).

Kew, Royal Gardens. Flora of the Solomon Islands. Bul. Misc. Inform. Kew 1894: 211-215. 1894; 1895: 132-139. 1895.

Annotated list of vascular plants, based on a collection made by the officers of H. M. S. *Penguin* in 1894; (second paper) records and descriptions of plants additional to those mentioned in several earlier papers cited in this publication.

Krämer, Augustin. Beiträge zu einer monographie der Hermit-inseln (Luf-archipel). In Forschungsreise S. M. S. *Planet* 1906/07. Herausgegeben von Reichs-Marine-Amt. 5: 57-122. fig. 17-49 (incl. map). Berlin, 1909.

Includes (p. 117-122) general features of flora and briefly annotated list of vascular plants collected by author, alphabetically arranged by vernacular names, with botanical names where known. These were the first plants collected on these islands. (West of Admiralty Islands, 1°15' S. Lat., 145°45' E. Long.)

Lauterbach, Carl. Beiträge zur flora von Neu-Mecklenburg. Bot. Jahrb. Engler 45: 354-365. 1911.

Includes species not recorded by Schumann and Lauterbach, Die flora der Deutschen schutzgebiete in der Südsee, and its Nachträge (see under New Guinea).

Rechinger, Karl. Bearbeitung der Musci, Pteridophytae und Siphonogamae des Neu-Guinea-archipels, der Pteridophytae und Siphonogamae von Ceylon, Hawaii und Hongkong . . . endlich nachträge und berichtigungen zu den vorhergehenden teilen. In his Botanische und zoologische ergebnisse einer wissenschaftlichen forschungsreise nach den Samoainseln, dem Neuguinea-archipel und

den Salomonsinseln von März bis Dezember 1905. V. tell. Denkschr. Math.-Naturw. Kl. K. Akad. Wiss. Wien 89: 443-672, 699-708. 30 fig., 8 pl. 1914.

Includes (p. 462-463) unannotated list of 60 vascular and cellular plants from the Shortland Islands, previously unknown botanically (Poperang Island and "Taubeninsel"); also (p. 468-621) list of vascular plants collected by author in Neu-Pommern, Solomon Islands, and Shortland Islands, with data. The Shortland Islands are south of the east end of Bougainville Island, one of the Solomon Islands.

Schumann, K. M., and others. Die flora von Neu-Pommern. Notizbl. K. Bot. Gart. Berlin 2: 59-158. map. 1898.

Botanical investigations, physiography, plant formations; annotated list of cellular and vascular plants by various authors.

MICRONESIA

See also New Guinea (Schumann and Lauterbach); Polynesia (Endlicher; Guppy; Merrill).

General

Kanehira, Ryôzô. An enumeration of Micronesian plants. Jour. Dept. Agr. Kyushu Imp. Univ. 4: 237-464. pl. 2 (map). 1935.

Botanical explorations; list of 1,219 vascular plants, with local and general distribution. The area covered includes the Marianne, Caroline, and Marshall groups. The principal islands are Saipan, Tinian, Rota, Yap, Palau, Truk, Ponape, Kusa, Jaluit, and Guam.

— Flora micronesica. 8, 468, 37 p. 211 fig., 21 pl., map. 26 cm. Tokyo, 1933.

Includes a general sketch of the flowering plants, with footnote bibliography; the trees and shrubs (including descriptions and figures); list of vascular plants known from Micronesia. Entirely in Japanese, except for botanical names.

Local

Bryan, E. H., jr. The plants of Guam, pt. I-XXVI. Appeared in Guam Recorder, v. 13, no. 8-v. 16, no. 4, 6, 8. Nov. 1936-Nov. 1939. I-IV, reprinted.)

Botanical explorations and publications, plant associations; descriptive flora of vascular plants, with keys, uses, and vernacular names. Includes cultivated as well as wild species; total number given as 588. Not yet completed. Information in part furnished by the author.

Bryan, W. A. A monograph of Marcus Island. Occas. Papers Bern. P. Bishop Mus. 2: 77-124. 8 fig., map. 1903.

Includes (p. 122-124) annotated list of 10 indigenous plants (only partly named botanically), also cultivated plants.

Christian, F. W. Ponapean trees, plants and shrubs. In his The Caroline Islands . . . p. 323-352. London, 1899.

Annotated alphabetical list of vernacular names used in Ponape, with botanical identification when known.

Diels, Ludwig, ed. Beiträge zur flora von Mikronesien und Polynesien . . . Ser. I-V. Bot. Jahrb. Engler 52: 1-18. 2 fig. 1914; 56: 429-577. 7 fig. 1921; 59: 1-29. 1 fig. 1924; 63: 271-323. 1930; 69: 395-400. 1938.

Treatments of various families or of single novelties, not in systematic order, contributed by specialists; no approach to a systematic flora. Ser. I (Beiträge zur flora von Mikronesien) edited by G. Volkens.

Hosokawa, Takehide. An enumeration of the plants collected from Ponape. Kudoa 5: 41-55, 79-96. 1937.

List of plants collected by author, with collecting numbers, data, and vernacular names. First installment not seen; second reaches Ulmaceae (Engler and Prantl system). (Processed publication.)

— Phytogeographical relationship between the Bonin and the Marianne Islands laying stress upon the distribution of the families, genera and special species of their vernacular [i. e. indigenous] plants. Jour. Soc. Trop. Agr. (Formosa) 6: 201-209, 657-670. 1 fig. (map). 1934.

Included here for its unannotated list of vascular plants of the Marianne Islands (p. 662-669), with mention of islands on which each occurs.

Hosokawa, Takehide. A preliminary account of the phytogeographical study on Truk, Caroline. *Bul. Bio-geog. Soc. Japan* 7: 171-255. 1937.

Includes annotated list of 217 plants known from the island. Text in Japanese. (Not seen; data from *Bot. Jahrb. Engler* 69 (Lit.): 70. 1938.)

—— Preliminary account of the vegetation of the Marianne Islands group. *Bul. Bio-geog. Soc. Japan* 5: 124-172. 9 fig., pl. 10-14 (incl. map). 1934.

Includes (p. 129-151) list of vascular plants, with mention of islands on which each occurs and indication of endemic species; also (in Japanese) botanical explorations, topography, climate, phytogeography, bibliography, etc.; brief English summary.

Kanehira, Ryôzô. On the flora of Rota Island. *Syokubutu oyobi dôbutu* (Bot. and Zool.) 4: 63-70. 12 fig. 1936.

Contains lists of woody plants, including some found also on other islands of the group. (In Japanese.)

Koidzumi, Gen-ichi. The vegetation of Jaluit Island. *Bot. Mag. Tokyo* 29: 242-257. 3 fig. (incl. map). 1915.

List of 59 spontaneous vascular plants, with vernacular names and general range; geography, meteorology, plant formations, bibliography.

Merrill, E. D. An enumeration of the plants of Guam. *Philippine Jour. Sci. C, Bot.* 9: 17-155. 1914.—Additions to the flora of Guam. *l. c.* 15: 539-544. 1919 (1920).

Annotated list of vascular plants (545 species, of which only 225 are truly indigenous and about 61 endemic), as well as cellular cryptogams, with general range given, citation of exsiccatae, vernacular names (not indexed); general features of flora, with especial consideration of the origin of the weeds. The "Additions" comprise 14 species.

Safford, W. E. The useful plants of the island of Guam. *Contrib. U. S. Natl. Herb. v. 9.* 416 p. 69 pl., map. 1905.

Geography, history, scientific explorations, physiography, climate, plant associations, agriculture, etc.; bibliography; annotated alphabetical list of plants (wild and cultivated), with brief descriptions, uses, and vernacular names.

Tuyama, Takasi. Plants of Marcus Island. *Jour. Jap. Bot.* 14: 425-426. 1938.

List of 11 vascular plants collected by Y. Yabe, with Japanese vernacular names. Text is in Japanese.

Volkens, Georg. Die flora der Marshallinseln. *Notizbl. K. Bot. Gart. Berlin* 4: 83-91. 1903.

List of species, with vernacular names and names of collectors, and occasional annotations; includes also the species known from the Gilbert Islands.

—— Die vegetation der Karolinen, mit besonderer berücksichtigung der von Yap. *Bot. Jahrb. Engler* 31: 412-477. pl. 11-14. 1901.

Briefly annotated list of vascular and cellular plants of the island of Yap; vernacular names; general features of physiography, etc., of the Carolines; geography, geology, climate, plant formations, and cultivated plants of Yap.

MOLUCCA ISLANDS

See also Dutch East Indies (general works; also Steenis, On the origin); New Guinea (Lauterbach; Warburg).

General

Warburg, Otto. Die botanische erforschung der Molukken seit Rumph's zeiten. In *Rumphius gedenboek 1702-1902*. Uitgegeven door het Koloniaal museum te Haarlem. p. 63-78. Haarlem, 1902.

Sketch of botanical explorations, with itineraries and references to publications; list of islands with names of collectors.

Local

Forbes, H. O. List of plants from Timor-Laut. In his *A naturalist's wanderings in the eastern archipelago . . . from 1878 to 1883*. p. 354-355. London, 1885.

Unannotated list of vascular plants collected by the author.

Hemsley, W. B. The south-eastern Moluccas. In his *Report on the botany of Juan Fernandez . . . Report on the scientific results of the voyage of*

H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 3, p. 101-226. pl. 64-65. London, 1885.

General features of vegetation; table of distribution, with discussion, including lists of plants from Keeling (or Cocos) Islands (in the Indian Ocean), Diego Garcia (Chagos Islands), Rarotonga (Hervey or Cook group), and various Pacific islands (Palmerston Island, Cook group; Enderbury, Gardner, Hull, Mary, Phoenix, and Sydney Islands, in the Phoenix Islands; Fanning Island; Starbuck Island; Suwarrow Island; Ducie Island); annotated list of plants (vascular and cellular) from the islands of Arrou (Aru), Babar, Dammar, Ki (Kei), Little Ki, Lakor, Larat, Letti, Moa, Timor Laut, and Wetter, including 367 phanerogams.

Merrill, E. D. An interpretation of Rumphius's Herbarium amboinense. 595 p. 2 maps. 23 cm. Manila, 1917.

Account of Rumphius and his work, etc.; annotated systematic list of plants listed by Rumphius, with synonymy, and citation of Amboina specimens; list of doubtful species; list of names in Rumphius' work, with botanical equivalents.

Rant, Anton. Twee botanische reizen naar Ambon. Natuurk. Tijdschr. Nederland-Indië 94: 100-133. 1 fig., 4 pl. 1934.

Includes unannotated list of cellular and vascular plants collected by author in Amboina (Ambon) and Ceram, also similar list from Celebes and Boeroe (Leksoela); bibliography.

Thistleton-Dyer, W. T. Report on the botany of Hr. H. O. Forbes's expedition to Timor-Laut. Jour. Linn. Soc. Bot. 21: 370-374. 1885.

Geography, general features of flora; unannotated list of species, lacking a few of the species given in Forbes' own list (1885).

NEW CALEDONIA

See also Polynesia (Jouan; Merrill); French Guiana (Lanessan, Les plantes utiles, p. 233-273, 663-701).

General

Guillaumin, André. Catalogue des plantes phanérogames de la Nouvelle-Calédonie et dépendances (Iles des Pins et Loyalty). Annales Mus. Colon. Marseille 19 (II, 9): 77-290. fold. map. 1911.

Botanical explorations, annotated list of collectors; systematic list of spermatophytes with localities and collectors; index of vernacular names.

Contribution à la flore de la Nouvelle-Calédonie [I-II]. Annales Mus. Colon. Marseille II, 9: 55-75. 1911.—III-VI. In Lecomte, H. Notulæ systematicae 2: 41-46, 99-105. 1911.—VII-L. Bul. Mus. Hist. Nat. Paris 17: 349-357, 453-459, 558-566. 1911; 18: 39-46, 91-101, 166-176, 324-331, 373-384, 466-468. 1912; 19: 376-383, 509-524. 1913; 20: 93-96. 1914; 25: 213-217, 288-295, 372-378, 499-505, 645-652. 1919; 26: 77-84, 174-179, 254-261, 361-368, 434-435. 1920; 27: 119-125, 257-259, 558-562. 1921; 28: 103-108, 196-198, 545-546. 1922; 29: 112-118. 1923; 31: 100-103, 209-212, 480-481, 482-484. 1925; 32: 229-232. 1926; 33: 110-114, 272-276. 1927.—LI-LIIL. Bul. Mus. Hist. Nat. Paris II, 1: 117-123, 216-218. 1929.—LIV. Candollea 5: 148-152. 1934 (1932).—LV-LXIV. Bul. Mus. Hist. Nat. Paris II, 2: 165-171. 1930; 4: 688-704. 1932; 5: 242-249, 322-327. 1933; 6: 198-203, 302-307. 1934.—LXV-LXVI. Notulæ Syst. Mus. Hist. Nat. Paris 5: 13-16, 131-134. 1935-36.—LXVII-LXX. Bul. Mus. Hist. Nat. Paris II, 10: 433-434, 518-521, 623-627. 1938; 11: 412-416. 1939.

Annotated lists of specimens of different collectors. Nos. 1 and 2 published under title: Contribution à la flore de Bourail (Nouvelle-Calédonie).

Matériaux pour la flore de la Nouvelle-Calédonie. I-V. In Lecomte, H. Notulæ systematicae 3: 5-65, 160-165, 260-263. 1914-16.—VI-XXII. Bul. Soc. Bot. France 66: 310-313. 1920; 67: 27-29, 47-54, 64-66, 121-124, 345-347. 1920-21; 69: 31-34, 65-69, 507-509. 1922-23; 71: 939-946, 1101-1112. 1925; 72: 89-92. 1925; 73: 102-107, 429-433, 437-442. 1926.—XXIII. Arch. de Bot. (Caen) Bul. Mens. 1: 73-77. 1927.—XXIV-XXV. Bul. Soc. Bot. France 74: 924-930. 1928; 75: 288-294. 1928.—XXVI-XXVII. Arch. de Bot. (Caen) Mém. v. 2, no. 3. 47 p. [1929]; v. 3, no. 5. 47 p. 1929.—XXVIII-LV. Bul. Soc. Bot. France 79: 225-226, 335-341, 515-516, 689-691. 1932; 80: 35-38, 476-480. 1933; 81: 3-17, 242-246, 283-285, 454-455. 1934; 82: 47-48, 274-283. 1935; 83: 294-315, 485-488, 577-578. 1936-37; 84: 54-61, 98-100, 159-161, 255-

257, 462-463, 1937-38; 85: 19-21, 37-47, 202-203, 294-305, 626-653. 1938-1939; 86: 174, 275-278. 1939.

Revisionary treatments of miscellaneous families and genera of spermatophytes.

Viellard, Eugène. Plantes utiles de la Nouvelle-Calédonie. *Annales Sci. Nat. IV, Bot.* 16: 28-76. 1862.

Annotated list of some useful plants, with vernacular names and uses.

Local

Beauvisage, Georges. Genera montrouzierana plantarum Novae Caledoniae. *Annales Soc. Bot. Lyon* 26: 1-96. 1901.

Critical discussion of the numerous new genera described by Montrouzier in 1860.

Däniker, A. U. Katalog der Pteridophyta und Embryophyta siphonogama. (Ergebnisse der reise von Dr. A. U. Däniker nach Neu-Caledonien und den Loyalty-inseln (1924/6) 4.) *Vierteljahrsschr. Naturf. Gesell. Zürich* v. 77-78, Beibl. 19. p. 1-114, 115-235, 237-333, 339-395. 1932-33. (Mitteilungen aus dem Botanischen museum der Universität Zürich CXLII.)

Geology, etc.; list of vascular plants, with data, collected by the author in 1924-26, with a few by other collectors; occasional critical notes. Pt. 4 goes through *Asclepiadaceae* (Engler and Prantl system).

Guillaumin, André, and Beauvisage, Georges. Species montrouzieranae seu enumeratio plantarum in Nova Caledonia terrisque adjacentibus a R. P. Montrouzier lectarum. *Annales Soc. Bot. Lyon* 38: 76-130. 3 fig. (incl. map). 1914.

Enumeration of all known specimens collected by Montrouzier from New Caledonia and nearby regions, with reductions to synonymy; references to earlier papers on same subject.

Montrouzier, Xavier, père. Flore de l'île Art (près de la Nouvelle Calédonie). *Mém. Cl. Sci. Acad. Imp. Sci., Belles-lett. et Arts Lyon* n. s., 10: 173-254. 1860.

Annotated list of vascular plants, most of which are described as new; mention of principal edible and textile plants.

Rendle, A. B., Baker, E. G., and Moore, S. LeM. A systematic account of the plants collected in New Caledonia and the Isle of Pines by Prof. R. H. Compton, M. A., in 1914. Part I. Flowering plants (angiosperms). *Jour. Linn. Soc. Bot.* 45: 245-417. pl. 13-24. 1921.

Annotated list of 830 angiosperms, of which 230 are described as new.—For Part II. Compton, R. H. *Gymnosperms, Pteridophyta*, see l. c. 421-462. pl. 26-27. 1922.

Sarasin, Fritz, and Roux, Jean. Nova Caledonia. *Forschungen in Neu-Caledonien und auf den Loyalty-inseln. B. Botanik.* Redaktion Hans Schinz und A. Guillaumin. v. 1, lfg. 1-3. plates. 28.5 cm. Berlin und Wiesbaden, 1914-21.

Annotated lists of miscellaneous families of vascular and cellular plants collected by Sarasin, by various authors; localities, general range, synonymy; geographic botany, floral statistics (p. 256-293).

Schlechter, Rudolf. Beiträge zur kenntnis der flora von Neu-Kaledonien. *Bot. Jahrb. Engler* 39: 1-274. 23 fig. 1906.

List of vascular plants collected by author. Treatment of various families contributed by other authors.

White, C. T. Ligneous plants collected in New Caledonia by C. T. White in 1923. *Jour. Arnold Arboretum* 7: 74-103. 1926.

Annotated list of woody plants collected by the author. *Gymnospermae* by E. H. Wilson, *Angiospermae* by A. Guillaumin.

NEW GUINEA

See also Dutch East Indies (general works; also Steenis, On the origin).

General

Lam, H. J. Materials towards a study of the flora of the island of New Guinea. *Blumea* 1: 115-159. 2 fig. (maps). 1934.

General review of the subject; plant associations, statistics, list of endemic or nearly endemic genera, phytogeography, list of principal collectors, bibliography (including index of families treated in Lauterbach's "Beiträge zur flora von Papuasien" and in "Nova Guinea. Résultats des expéditions scientifiques à la Nouvelle Guinée," vol. 8, 12, and 14).

Lauterbach, Carl. Beiträge zur flora von Papuasien I-XXIV. Bot. Jahrb. Engler 49: 1-169. illus. 1912; 40: 1-80, 81-170, 288-383. illus. 1913; 52: 19-176, 177-220. illus. 1914-15; 54: 69-96, 97-128, 129-261. illus. 1919; 55: 19-144, 145-312. illus. 1917-18; 56: 31-160, 161-272, 273-400, 401-414. 1920-21; 57: 321-400, 401-528, 529-608. 1922; 58: 1-96, 97-181, 244-304, 305-448, 449-495. 1923; 59: 41-128, 505-567. illus. 1924-25; 60: 1-174. pl. 1. 1925; 61: 1-64, 65-222. 1927; 62: 284-304, 338-416, 417-501, 550-569. pl. 25. 1928-29; 63: 1-28, 419-476. 1929-30; 66: 161-215. 1934; 67: 143-236. 1935; 68: 244-247, 248-268. 1937; 69: 252-294. 1938; 70: 95-148. 1939.

Treatments of miscellaneous families and genera by various authors; continued by L. Diels (no. XXIII on) after Lauterbach's death. Some of the articles are merely descriptions of new species, others revisionary treatments with keys. The species listed in nos. I-VI are indexed in Bot. Jahrb. Engler 55: 295-312. 1918. For index to families treated in parts I-XX (1912-1934), see Lam, H. J., Blumea 1: 147-150. 1934.

Lorentz, H. A., and others, eds. Nova Guinea. Résultats de l'expédition scientifique néerlandaise à la Nouvelle-Guinée . . . Botanique. v. 8, v. 12, v. 14, v. 18. plates. 31.5 cm. Leiden, 1909-36.

Revisionary treatments of miscellaneous families by various authors. For index to families (v. 8, 12, 14), see Lam, H. J., Blumea 1: 150-155. 1934. Publication discontinued; replaced by Nova Guinea, a journal of botany, zoology [etc.] of the Papuan region. n. s., v. 1, 1937—(no botanical articles to date).

Warburg, Otto. Das pflanzenkleid und die nutzpflanzen Neu-Guineas. In Krieger, M. Neu-Guinea. p. 36-72. pl. 2-13. Berlin, [1899].

General features of flora, plant formations, condensed account of useful plants.

Local

Beccari, Odoardo. Catalogue of the plants of the Fly River, 1877. In Albertis, L. M. d'. New Guinea . . . v. 2, p. 396-400. London, 1880.

Unannotated list of 314 vascular plants collected by d'Albertis; many of the species are named only to genus.

Diels, Ludwig. Beiträge zur flora des Saruwaged-gebirges. Bot. Jahrb. Engler 62: 452-501. 1929.

Botanical explorations, with bibliographical references; list of cellular and vascular plants collected by Chr. Keysser in 1912 and 1916. These mountains are in northeastern New Guinea.

Gibbs, L. S. Dutch N. W. New Guinea. A contribution to the phytogeography and flora of the Arfak Mountains, etc. iv, 226 p. 16 fig., 4 pl. 26.5 cm. London, 1917.

Botanical explorations, topography, plant associations, phytogeography, bibliography; annotated list of vascular and cellular plants collected by the author at the Angi Lakes, altitude 7,000-9,000 feet, in the Arfak Mountains in December 1913.

Kärnbach, Ludwig. Ueber die nutzpflanzen der eingeborenen in Kaiser-Wilhelmsland. Bot. Jahrb. Engler 16 (Beibl. 37): 10-19. 1892.

Annotated systematic list of wild and cultivated vascular plants, with uses, but almost no vernacular names.

Kew. Royal Gardens. Flora of British New Guinea. Bul. Misc. Inform. Kew 1899: 95-133. 1899.

List of about 130 vascular plants (and a few cellular) from Mount Scratchley, with some from other localities; by various authors.

Mueller, Ferdinand von. Descriptive notes on Papuan plants, I-IX. 2 vol. 21 cm. Melbourne, 1875-[90].

Consist of nine parts, each containing one or more annotated lists of species. In vol. 1, p. 37-40, a list is given of 144 plants (not Papuan) to which Linnaeus gave the same binomial that had been used by pre-Linnaean authors.

Rendle, A. B., and others. Dr. H. O. Forbes's New Guinea plants. *Jour. Bot.* 61 (Suppl.); 1-64. 1923; 62: 53-55. 1924.

List of New Guinea plants collected by H. O. Forbes in 1885-86, with localities and frequent annotations. Polypetalae by E. G. Baker, Gamopetalae and Monochlamydeae by S. L. Moore, Monocotyledons by A. B. Rendle, Filices by A. Gepp; Musci and Lichenes by other authors.

Ridley, H. N. Report on the botany of the Wollaston expedition to Dutch New Guinea, 1912-13 . . . assisted by Messrs. E. G. Baker, S. Moore, H. F. Wernham, C. H. Wright, and others. *Trans. Linn. Soc. Bot. II*, 9: 1-284. pl. 1-6. 1916.

Itinerary, botanical regions; annotated list of vascular and cellular plants, with references and general range.

Scheffer, R. H. C. C. Énumération des plantes de la Nouvelle-Guinée, avec description de espèces nouvelles. *Annales Jard. Bot. Buitenz.* 1: 1-60. 1876.—Epilogue . . . l. c. 178-181. 1876.

List of phanerogams collected by Teysmann in 1871, mostly without localities except in the case of new species.

Schumann, K. M. *Plantae bammmlerianae*. *Notizbl. K. Bot. Gart. Berlin* 1: 44-57. 1895.

Annotated list of cellular and vascular plants collected by Bammmler on the Tami Islands.

— and Hollrung, Max. *Die flora von Kaiser Wilhelms Land*. v, 137 p. 25.5 cm. Berlin, [1889]. (Beiheft zu den Nachrichten über Kaiser Wilhelms Land und den Bismarck-archipel. 1889.)

Systematic list of cellular and vascular plants, with localities, collectors' names, general range, occasional annotations.

— and Lauterbach, Carl. *Die flora der deutschen schutzgebiete in der Südsee*. xvi, 613 p. 22 pl., map. 28.5 cm. Leipzig, 1901 (1900). —Nachträge . . . (mit ausschluss Samoa's und der Karolinen). 446 p. 14 pl., port. 28 cm. Leipzig, 1905.

Botanical collections, bibliography; list of cellular and vascular plants (2,208 species, of which 1,560 are vascular), with references, citation of collections, and general range, but no vernacular names. The area covered includes Kaiser Wilhelmsland (northeast quarter of New Guinea), Bismarck Archipelago, Admiralty Islands, western half of the Solomon Islands, Marshall Islands, Caroline Islands, Palau (Pelew) Islands, and the Ladrões (Marianne Islands). The supplement includes an index to the genera and species of both parts.

Valeton, Theodor. *Plantae papuanae*. *Bul. Dépt. Agr. Indes Néerland.* no. 10, iii, 70 p. 1907.

Systematic list, with frequent annotations, of spermatophytes collected on the expedition of A. Wichmann to the north coast in 1903 and on that of P. Meyes and Rochfort to the south and southwest coast in 1903-04; bibliography.

Warburg, Otto. *Beiträge zur kenntnis der papuanischen flora*. *Bot. Jahrb. Engler* 13: 230-455. 1891.

Phytogeography; annotated list of spermatophytes collected by author in New Guinea, the Moluccas, the Bismarck Archipelago, and various small neighboring islands; general range stated. The author defines Papuasias as the region between 130° and 154° E. Long. and 0° and 11° S. Lat., including New Guinea and adjacent small islands, the Bismarck Archipelago, the Aru Islands, the Kei (Key) Islands, the Admiralty Islands, and the Louisiade Archipelago. The term is used by some to include the Solomon Islands also.

— *Bergpflanzen aus Kaiser Wilhelms-land, gesammelt auf der Zöller'schen expedition im Finisterregebirge von F. Hellwig*. *Bot. Jahrb. Engler* 16: 1-32. pl. 1. 1892.

Itinerary, general features of flora; annotated list of cellular and vascular plants collected at or above 1,000 meters elevation.

White, C. T. A contribution to our knowledge of the flora of Papua (British New Guinea). *Proc. Roy. Soc. Queensland* 34: 5-65. 1923.

General features of flora, history of botanical exploration; list of vascular plants (about 800 species), nearly all collected by the author; bibliography.

— *Ligneous plants collected in the territory of Papua (British New Guinea) in 1925-26 by L. J. Brass*. *Jour. Arnold Arboretum* 10: 197-274. 1929.

General features of flora; annotated list of woody spermatophytes; short list of herbaceous plants collected.—See also Rehder, A. A supplement to C. T. White, "Ligneous plants . . ." l. c. 14: 62-67. 1933.

PARACEL ISLANDS

General

Gagnepain, François. Quelques plantes des flots de la Mer de Chine. *Bul. Mus. Hist. Nat. Paris* II, 6: 286. 1934.—Deuxième note . . . *Notulae Syst. Mus. Hist. Nat. Paris* 6: 35-37. 1 fig. (map). 1937.

List, with localities and dates, of plants collected on the Paracel Islands (off Annam) and North Danger, Loaita, Itu-Aba, and Spratly Islands to the south of the Paracels.

Sawada, Kaneyoshi, and Sasaki, Syun'iti. [Plants of the Paracel Archipelago.] *Trans. Nat. Hist. Soc. Formosa* 12: 89-90. 1922.

List of 28 plants collected by Y. Ono on Drummond, Money, Lovell, Duncan, and Lincoln Islands in 1922. (In Japanese.) Title and annotation from Merrill, E. D., and Walker, E. H. *A bibliography of eastern Asiatic botany.* p. 433. 1938.

PHILIPPINE ISLANDS

See also Dutch East Indies (Steenis, On the origin).

General

Brown, W. H., ed. Minor products of Philippine forests. 3 v. illus. 23.5 cm. Manila, 1920-21. (Bulletin no. 22, Bureau of Forestry.)

Illustrated treatments of various forest products other than timber, by several authors. Vol. 1 includes palms and palm products, bamboos, fiber plants; vol. 2, resins, oils, etc., wild food plants, natural dyes; vol. 3, wild ornamental plants (herbs), soap substitutes, official medicinal plants, poisonous plants, miscellaneous useful wild plants, edible fungi, medical uses of Philippine plants. Vernacular names are given; complete index in vol. 3.

Merrill, E. D. A dictionary of the native plant names of the Philippine Islands. [Pub.] *Bur. Govt. Lab. Philippine Isl.* no. 8. 193 p. Manila, 1903.

Alphabetical list of about 5,000 vernacular names, with botanical equivalents; corresponding list of scientific names with collected vernacular names and brief annotations on habit, uses, etc.

——— An enumeration of Philippine flowering plants. 4 v. 6 maps. 24 cm. Manila, 1922 (1923)—26.

Annotated list of vascular plants (8,120 species, of which 5,532 are endemic), with synonymy, exsiccatae, local and extralimital range, vernacular names (v. 1-3). Vol. 4 contains geography and geology, Philippine alphabet and vernacular names, botanical history, ecology, floral relationships, bibliography, additions to enumeration, and general indices of vernacular and scientific names.—Pages 1-239 (and 6 maps) of v. 4 reprinted with title: A discussion and bibliography of Philippine flowering plants, as *Pop. Bul. Bur. Sci. Philippine Isl.* no. 2. 1926.—See also his *Additions to our knowledge of the Philippine flora, I-III.* *Philippine Jour. Sci.* 26: 447-496. 1925; 29: 475-496. 1926; 30: 389-430. 1926.—Also *Quisumbing, Eduardo.* New or interesting Philippine plants, I. *I. c.* 41: 315-371. 28 fig., 3 pl. 1930.

——— *Species blancoanae.* A critical revision of the Philippine species of plants described by Blanco and by Llanos. 423 p. 24 cm. Manila, 1918.

Description of editions, etc.; annotated list of species described by Blanco and by Llanos, with identifications. Replaces his *A review of the identifications of the species described in Blanco's Flora de Filipinas.* [Pub.] *Bur. Govt. Lab. Philippine Isl.* no. 27. 132 p. 1905; also his *Additional identifications . . . Philippine Jour. Sci.* C, Bot. 2: 429-436. 1907.

Pardo de Tavera, T. H. *Plantas medicinales de Filipinas.* 339 p. 22 cm. Madrid, 1892. (English translation and revision, *Medicinal plants of the Philippines*, by J. B. Thomas, jr. 269 p. Philadelphia, 1901.)

Annotated systematic list, with vernacular names, uses, description, and habitat; index of species classified by uses and by diseases.

Philippine Islands. Bureau of forestry. A dictionary of names applied to trees of the first, second, and third groups. *Bul. Bur. Forestry Philippine Isl.* no. 23. 40 p. 1923.

List of officially recognized names, with botanical equivalents; alphabetical list of other vernacular names for these, with cross-references.

Reyes, L. J. Philippine woods. Tech. Bul. Dept. Agr. and Comm. Philippines no. 7. 536 p. 88 pl. 1938.

Bibliography, principal distinctive characters used in wood anatomy; systematic list of 264 important and about 200 minor species, with vernacular names, distribution, size, general and structural characteristics of wood; classification of Philippine woods into 4 groups, weight, durability, etc., of woods.

Scribner, F. L. List of Philippine agricultural products and fiber plants. Bul. Bur. Agr. Philippine Isl. no. 5. 47 p. 1904.

Briefly annotated alphabetical list of fruits and vegetables, with vernacular names; annotated tabular list of fiber plants.

Wester, P. J. The food plants of the Philippines. Bul. Bur. Agr. Philippine Isl. no. 39. 3d ed. rev. x, 236 p. 67 pl., map. 1924. (1st ed. in Philippine Agr. Rev. v. 9. 1916; 2d ed. l. c. v. 14. 1921 (1922).)

Topography, climate, etc.; commercial statistics; annotated list of species (wild and cultivated) alphabeted by vernacular names; index of scientific names with vernacular equivalents; bibliography.

Whitford, H. N. The principal forest trees. (The forests of the Philippines. Pt. II.) Bul. Bur. Forestry Philippine Isl. no. 10. 113 p. 103 pl. 1911.

Systematic list, with scientific, official, and usual trade names; key to principal timber trees; descriptive account of habit, bark, wood, uses, localities, vernacular names of each species, systematically arranged.

Local

Brown, W. H., Merrill, E. D., and Yates, H. S. The revegetation of Volcano Island, Luzon, Philippine Islands, since the eruption of Taal Volcano in 1911. Philippine Jour. Sci. C, Bot. 12: 177-248. 2 fig. (maps), pl. 4-16 (incl. map). 1917.

Topography, former vegetation, revegetation, plant associations, etc.; annotated list of vascular plants found since 1914.

Kanehira, Ryôzô. A list of plants collected at Davao, P. I. Bult. Sci. Fak. Terkult. Kjušu Imp. Univ. Fukuoka, Japan 7: 228-238. 1936.

List of vascular plants collected by the author, with localities and general range. (Text in Japanese.) (Mindanao.)

Merrill, E. D. A flora of Manila. 490 p. 24 cm. Manila, 1912. [Philippine Islands. Bureau of science. Publication no. 5.]

Descriptive flora of the wild and most of the cultivated vascular plants (1,007 species), with keys, local and extralimital range, vernacular names; glossary. The area covered is only about 100 sq. km. around Manila, but the flora is nearly complete for most inhabited regions at low altitudes in all parts of the Philippine Islands.—See also his Notes on the flora of Manila, with special reference to the introduced element. Philippine Jour. Sci. C, Bot. 7: 145-208. 1912. (Statistical tables of distribution of the species treated in his "Flora of Manila," with discussion; lists of introduced species.)—Also his Nomenclatural and systematic notes on the flora of Manila. l. c. 227-251. 1912.

—— The flora of Mount Halcon, Mindoro. Philippine Jour. Sci. C, Bot. 2: 251-309. 1907.

Botanical collections, plant formations, etc.; annotated list of spermatophytes with general range and occasional annotations. Contains references to papers on Pteridophyta, Orchidaceae, and Bryophyta of same locality.

—— The flora of the Lamao Forest Reserve. Philippine Jour. Sci. 1 (Suppl. 1): 1-141. 1906.

Topography, general features of flora, statistics; annotated list of hepatics, mosses, and vascular plants; general range indicated. The reserve is on Mount Mariveles, Province of Bataan, Luzon.

—— Hugh Cuming's letters to Sir William J. Hooker. Philippine Jour. Sci. 30: 153-184. part. 1926.

Includes (p. 174-176) explanation of erroneous labeling of some of Cuming's "Philippine" plants, with list of collecting numbers and localities.

—— On a collection of plants from the Batanes and Babuyan Islands. Philippine Jour. Sci. C, Bot. 3: 385-442. 1909.

Geography, phytogeography; list of about 415 vascular plants, with localities. The Batanes (or Bashi) and the Babuyan Islands form a group extending from near the north coast of Luzon to within about 160 km. of southern Formosa.

Merrill, E. D., and Merritt, M. L. The flora of Mount Pulog. Philippine Jour. Sci. C, Bot. 5: 287-403. 4 pl., tab., map. 1910.

Geology, types of vegetation, statistical table of distribution, etc.; list of 528 cellular and vascular plants, of which 224 are endemic. Mount Pulog is the highest peak in Luzon.

Robinson, C. B. Botanical notes upon the island of Polillo. Philippine Jour. Sci. C, Bot. 6: 185-223. 1911.

Geography, phytogeography, etc.; list of vascular plants. Polillo is an island off eastern Luzon.

POLYNESIA

See also Fiji Islands; Hawaiian Islands; Micronesia (Diels); Molucca Islands; Samoan Islands; Society Islands.

The following publication has not been available:

Seurat, L. G. Observations sur la structure, la faune et la flore de l'île Marutea du Sud. Papeete, 1904.

General

Drake del Castillo, Emmanuel. Illustrationes florae insularum Maris Pacifici. 458 p. 50 pl. 33 cm. Paris, 1886-1892.

The introduction summarizes the physiography, plant distribution, general features of flora, principal botanical explorations. Pages 103 to end contain a systematic list of the vascular plants of Polynesia (2,189 species), with synonyms, localities, collectors, and general range. The area covered includes Viti (Fiji), Tonga, Samoa, Society, Paumotu (Tuamotu), Marquesas, and the Hawaiian Islands. The exquisite plates illustrate characteristic species of various families.

Endlicher, Stephan. Bemerkungen über die flora der Südseeinseln. Annalen Wiener Mus. Naturgesch. 1: 129-190. pl. 13-16. 1836.

Synoptical list of 1,672 species (of which 1,382 are vascular plants) with localities and authorities for records. The area included is Polynesia, Micronesia, and eastern Melanesia. The introduction consists mainly of geographical discussion.

Guppy, H. B. The Polynesians and their plant names. Jour. Trans. Victoria Inst. (London) 29: 135-170. 1897.

Includes alphabetical list of important plants with vernacular names in Indian Archipelago, Malagasy, West Pacific, Fiji, West and East Polynesia, Micronesia, and elsewhere.—See also Safford, W. E. Cultivated plants of Polynesia and their vernacular names, an index to the origin and migration of the Polynesians. Proc. Pan-Pacific Scient. Conf. 1st, 1920 (Spec. Pub. Bern. P. Bishop Mus. 7): 183-187. 1921.

Jouan, Henri. Les plantes alimentaires de l'Océanie. Mém. Soc. Natl. Sci. Nat. Cherbourg 19 (II, 9): 33-83. 1875.

Extensively annotated list of food plants, with vernacular names. Covers the Society, Marquesas, Sandwich (Hawaiian), Fiji, and Tonga Islands, New Caledonia, Wallis I., etc.

— Les plantes industrielles de l'Océanie. Mém. Soc. Natl. Sci. Nat. Cherbourg 20 (II, 10): 145-240. 1876.

Annotated list of useful plants (excluding edible plants), classified by uses; vernacular names given, but mostly not indexed. Covers the Society, Marquesas, Sandwich, Fiji, and Tonga Islands, New Caledonia, Wallis I., etc.

Merrill, E. D. Polynesian botanical bibliography, 1773-1935. Bul. Bern. P. Bishop Mus. 144. 194 p. 1937.

List of full titles of periodicals cited; briefly annotated list of about 2,600 titles, arranged alphabetically by authors. Replaces his "Bibliography of Polynesian botany," l. c. 13. 68 p. 1924. The region covered is essentially the Pacific basin between 30° N. and 30° S. Lat., excluding the Bonin Islands, east to Juan Fernandez. New Caledonia, New Hebrides, Norfolk, and the Kermadec Islands are included. The larger archipelagos near New Guinea, such as the Louisiades, Solomons, and Bismarck Archipelago, are excluded.

Local

Beaglehole, Ernest, and Beaglehole, Pearl. Ethnology of Pukapuka. Bul. Bern. P. Bishop Mus. 150. v, 419 p. 55 fig. (incl. maps), 6 pl. 1938.

Contains (p. 25-26) section on "Plant life," including list of "all plants growing in Pukapuka, as identified by Marie C. Neal, E. H. Bryan, Jr., and F. Ray-

mond Fosberg," alphabetically arranged by vernacular names, with notes on uses. (Pukapuka or Danger Islands, an atoll northeast of Samoan Islands, 165°50' W. Long., 10°55' S. Lat.)

Brown, F. B. H., and Brown, E. D. W. Flora of southeastern Polynesia. Bul. Bern. P. Bishop Mus. 84. 194 p. 18 fig. (incl. maps), 35 pl. 1931; 89. 123 p. 19 fig. (incl. maps), 21 pl. 1931; 130. 386 p. 70 fig., 9 pl. 1935.

Botanical explorations, topography, climate, native agriculture, etc.; annotated descriptive flora of vascular plants, with vernacular names and uses; bibliographies. The total indigenous flora includes 453 species and varieties. Pt. I, Monocotyledons; pt. II, Pteridophytes; pt. III, Dicotyledons. Covers the Marquesas, Tuamotu, and Austral Islands, Rapa Island, and the Mangareva-Henderson Island group.

Burkill, I. H., and Crosby, C. S. The flora of Vavau, one of the Tonga Islands. Jour. Linn. Soc. Bot. 35: 20-65. 1901.

List of vascular plants, including 83 species additional to Hemsley's "Flora of the Tonga or Friendly Islands" (1894); general range given; botanical explorations, general features of vegetation, statistical table.

Cheeseman, T. F. The flora of Rarotonga, the chief island of the Cook group. Trans. Linn. Soc. Bot. II, 6: 261-313. pl. 31-35. 1903.

Annotated list of 334 vascular plants, with vernacular names and general range; physiography, general features of vegetation.

Christophersen, Erling. Vegetation of Pacific equatorial islands. Bul. Bern. P. Bishop Mus. 44. 79 p. 7 pl. 1927. (Whippoorwill expedition, Pub. no. 2.)

Separate annotated lists of vascular plants of Christmas, Jarvis, Fanning, Washington, Palmyra, Howland, and Baker Islands, all atolls of coral origin; geography, meteorology, soil, plant formations; bibliography.

Cranwell, L. M. Flora of Manihiki, Cook group. Rec. Auckland Inst. and Mus. 1: 169-171. 1933.

Geography, general features of flora; annotated list of cellular and vascular plants, with vernacular names; bibliography.

Drake del Castillo, Emmanuel. Flore de la Polynésie française. Description des plantes vasculaires qui croissent spontanément ou qui sont généralement cultivées aux îles de la Société, Marquises, Pomotou, Gambier et Wallis. xxiv, 352 p. map. 26 cm. Paris, 1892.

Physiography, geographical affinities, botanical collectors, annotated bibliography; descriptive flora, the vernacular names given but not indexed. Includes 588 species, of which 161 are endemic.

Fosberg, F. R. Vegetation of Vostok Island, central Pacific. Proc. Hawaiian Acad. Sci. 11 (Spec. Pub. Bern. P. Bishop Mus. 30): 19. 1937.

List of 1 cellular and 2 vascular plants collected by Capt. W. J. Anderson. Vostok Island is a tiny isolated coral island in 10°66' S. Lat., 152°23' W. Long.

Fuentes, Francisco. Reseña botánica sobre la Isla de Pascua. Bol. Mus. Nac. Chile 5: 320-337. 1913.

Geology, climate, history, notes on introduced and cultivated plants; list of 124 vascular and cellular plants (including cultivated species), with general range and occasional annotations. (Easter Island.)

Guillaumin, André, Camus, Aimée, and Tardieu-Blot, Mme. Plantes vasculaires récoltées à l'Île de Pâques par la Mission Franco-Belge. Bul. Mus. Hist. Nat. Paris II, 8: 552-556. 1936.

Botanical explorations, with bibliographical references; list of vascular plants collected in 1934-35, including additions to the known flora. (Easter Island.)

Hedley, Charles. General account of the Atoll of Funafuti. Mem. Austral. Mus. Sydney 3: 1-71. 3 fig. 1896.

Includes account of vegetation (p. 20-41), with mention of uses of plants. Funafuti is one of the Ellice Islands.

Hemsley, W. B. Elizabeth Island . . . In his Report on present state of knowledge of various insular floras . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v.1, Intro. p. 15. London, 1885.

List of 4 phanerogams. Elizabeth or Henderson Island lies between Pitcairn Island and Ducie Island, southeast of the Tuamotu Islands.

Hemsley, W. B. The flora of the Tonga or Friendly Islands, with descriptions of and notes on some new or remarkable plants, partly from the Solomon Islands. Jour. Linn. Soc. Bot. 30: 158-217. pl. 9-11. 1894.

Geography, geology, botanical explorations; systematic list of vascular plants (290 species), with names of collectors and general range; table of distribution of the species.

— Maldon Island . . . In his Report on present state of knowledge of various insular floras . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, Introd. p. 17-18. London, 1885.

List of phanerogams collected by James Macrae. Maldon or Malden Island is in 3° 58' S. Lat., 155° W. Long.

Jardin, Édelestan. Essai sur l'histoire naturelle de l'archipel de Mendana ou des Marquises. 2. ptie: Botanique. Mém. Soc. Imp. Sci. Nat. Cherbourg 5: 289-331. 1857. (Reprinted with title: Essai d'une flore de l'archipel des Marquises. 43 p. 1858.)

List of vascular (221 species) and cellular plants collected or observed by the author in 1853-54 in the northwest group of the archipelago, with vernacular names and some annotations; notes on vegetation and knowledge of plants by natives.

Linton, A. M. Notes on the vegetation of Penrhyn and Manihiki Islands. Jour. Polynesian Soc. 42: 300-307. pl. 1933.

General notes on agriculture; annotated list of useful plants, with mention of others, bibliography. Penrhyn and Manihiki are two of the Cook Islands.

Macgregor, Gordon. Ethnology of Tokelau Islands. Bul. Bern. P. Bishop Mus. 146. iv, 183 p. 25 fig. (incl. map), 10 pl., tab. 1937.

Includes (p. 11) list of known plants, alphabetically arranged by vernacular names. The Tokelau Islands are four atolls north of Samoa, also known as Union Group or Union Islands, about 8°-11° S. Lat., 171°-173° W. Long.

Maiden, J. H. The botany of Funafuti, Ellice group. Proc. Linn. Soc. N. S. Wales 29: 539-556. 1904.

Annotated list of vascular plants and one lichen, with vernacular names and uses.

— Notes on the botany of Pitcairn Island. Rpt. Australas. Assoc. Adv. Sci. 8: 262-271. 1901.

Botanical explorations, bibliography; partly annotated list of vascular plants, with vernacular names.

Riley, L. A. M. Notes on the flora of Rapa. ("St. George" Pacific expedition, 1924-5.) Bul. Misc. Inform. Kew 1926: 51-56. 1926.

General features of flora: list of 17 vascular plants. Rapa or Oparu Island is not far southeast of the Tubuai or Austral Islands.

Rock, J. F. C. Palmyra Island with a description of its flora . . . with the cooperation of O. Beccari, A. Zahlbruckner, U. Martelli, H. L. Lyon, and M. A. Howe. Bul. Col. Hawaii 4. 53 p. (incl. 20 pl.). 1916.

History, physiography, etc.; annotated list of 15 vascular plants (and 23 cellular).

St. John, Harold, and Fosberg, F. R. Vegetation of Flint Island, central Pacific. Occas. Papers Bern. P. Bishop Mus. v. 12, no. 24. 4 p. 1937.

General features of flora; annotated list of vascular plants, with authors' collecting numbers [based on a visit to the island Oct. 16, 1934]. Flint Island is a tiny coral island in the south central Pacific, 11° 25' 43" S. Lat., 151° 48' W. Long.

Seurat, L. G. Flore économique de la Polynésie française. Bul. Soc. Natl. Acclim. France 52: 310-326, 355-359, 369-376. 1905.

Climate, general features of flora; running account of useful plants, grouped by uses.

— Observations sur la structure de l'île Timoe (Crescent). 8 p. 8°. 1903.

Contains short lists of fauna and flora. (Not seen; title and annotation supplied by H. St. John.) (Southeastern part of Tuamotu Islands.)

Skottsberg, Carl. The phanerogams of Easter Island. In his The natural history of Juan Fernandez and Easter Island. v. 2, Botany, pt. 2, no. 5. p. 61-84. 2 fig., pl. 6-9. Uppsala, 1922.

Enumeration of phanerograms (30 native species, with supplementary lists of introduced species), with localities, general range, and critical notes; bibliography.—See also Christensen, C., and Skottsberg, C. The ferns of Easter Island. l. c. pt. 1, no. 2, p. 49–53. 3 fig. 1920.

Trelease, William. Report on the collection of plants made by Dr. [W. S.] Dixon, U. S. N. In Report of the eclipse expedition to Caroline Island, May, 1883. Mem. Natl. Acad. Sci. 2: 88–90. 1884.

Annotated list of wild and cultivated vascular and cellular plants. The list of wild vascular species is repeated by Hemsley in Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873–76. Botany. v. 1, Introd. p. 18. 1885. Caroline Island (not to be confused with the Caroline Islands, in Micronesia) is in 9° 57' S. Lat., 150° 75' W. Long.

Wilder, G. P. The flora of Makatea. Bul. Bern. P. Bishop Mus. 120. 49 p. 1 fig. (map), 5 pl. 1934.

Topography, climate, phosphate industry, general features of animal and plant life; annotated list of vascular plants, with vernacular names and brief descriptions. Makatea is one of the Tuamotu Islands, also known as Paumotu Islands or Low Archipelago.

——— Flora of Rarotonga. Bul. Bern. P. Bishop Mus. 86. 113 p. 3 fig., 8 pl. 1931.

Topography, history, etc.; annotated list of vascular plants, with vernacular names and brief descriptions. Rarotonga is one of the Cook Islands.

SAMOAN ISLANDS

See also Polynesia (general works).

General

Bülow, Werner von. Die Samoa-inseln und ihre einheimischen nutzpflanzen. Gartenfl. 45: 412–415, 452–454, 518–520, 543–544, 574–575, 628–633. 1896.

Brief account, with vernacular names, the plants classified by uses.

Christophersen, Erling. Flowering plants of Samoa. Bul. Bern. P. Bishop Mus. 128. 221 p. 32 fig. 1935; 154. 77 p. 21 fig., 3 pl. 1938.

Botanical explorations; annotated list of angiosperms; vernacular names, bibliography. Apparently based mostly on specimens in Bernice P. Bishop Museum (collected from 1921 on). Pt. 2 contains new records, etc.

Krämer, Augustin. Die Samoa-inseln. v. 2. illus., plates. 31 cm. Stuttgart, 1903.

The chapter on "Flora" (p. 359–388) contains an annotated alphabetical list of vernacular names with botanical identifications and uses.

Lauterbach, Carl. Beiträge zur flora der Samoa-inseln. Bot. Jahrb. Engler 41: 215–238. 1908.

Annotated list of species supplementary to Reinecke's and Krämer's papers. Essentially the same material published in Jahresber. Schles. Gesell. Vaterl. Cult. 86 (2. abt. Zool.-Bot. Sekt.): 17–26. 1909.

Reinecke, Franz. Die flora der Samoa-inseln. Bot. Jahrb. Engler 23: 237–368. 7 fig., pl. 4–5. 1896; 25: 578–708. 1 fig., pl. 8–13. 1898. (Reprinted.)

Botanical collections, geography, physiography, etc.; annotated list of cellular and vascular plants, with vernacular names (indexed) and extralimital range.

——— Die nutzpflanzen Samoas und ihre verwendung. Jahresber. Schles. Gesell. Vaterl. Cult. 73, Abt. II (Naturw. C): 22–46. 1896.

Annotated list of native and cultivated useful plants, classified by uses.

——— Samoa. 312 p. illus., map. 22 cm. Berlin, [1902].

General account of Samoa and its inhabitants; contains (p. 302–312) an annotated list of edible plants.

Setchell, W. A. American Samoa: pt. I. Vegetation of Tutuila Island. Pt. II. Ethnobotany of the Samoans. Pt. III. Vegetation of Rose Atoll. vi, 275 p. 57 fig., 37 pl. 25.5 cm. Washington, 1924. (Carnegie Inst. Washington, Pub. 341—Dept. Mar. Biol. v. 20.)

(I) Physiography, climate, plant formations, statistics of flora, etc.; annotated list of vascular and cellular plants with vernacular names and general range; bibliography. (II) Bibliography; running account of useful plants, classified by

uses. (III) Geography, history, geology, climate, fauna, ecology, etc.; annotated list of vascular and cellular plants. Rose Atoll is in $14^{\circ} 32' \text{ S. Lat.}$, $168^{\circ} 11' \text{ W. Long.}$

Local

Horne, John. List of plants found in Upolu, while on a short visit to the Samoan, or Navigator Islands. In his A year in Fiji . . . p. 284-286. London, 1881.

Unannotated list of vascular plants.

SAN AMBROSIO AND SAN FELIX

General

Hemsley, W. B. On the vegetation of San Ambrosio and San Felix. In his Report on the botany of Juan Fernandez . . . Report on the scientific results of the voyage of H. M. S. *Challenger* during the years 1873-76. Botany. v. 1, pt. 3, p. 97-100. London, 1885.

Physiography, etc.; annotated list of species (8 phanerogams).

Philippi, Federico. La flora de las islas San Ambrosio i San Félix. Anales Univ. Chile 47 (Secc. 1): 185-194. 1875.

Annotated list of 12 phanerogams.

Skottsberg, Carl. Die flora der Desventuradas-inseln (San Felix und San Ambrosio) nach den sammlungen F. Johows und mit einfügung seiner hinterlassenen schriften herausgegeben und ergänzt . . . Göteborgs K. Vetensk.-o. Vitterhets-Samh. Handl. V, B, v. 5, no. 6. 87 p. 46 fig. (incl. map). 1937.

Topography, botanical investigations; critically annotated list of vascular and cellular plants; phytogeography, ecology; bibliography.

Local

Johnston, I. M. The flora of San Felix Island. Jour. Arnold Arboretum 16: 440-447. pl. 165. 1935.

Physiography, general features of flora, botanical explorations; annotated list of 7 vascular plants.

SOCIETY ISLANDS

See also Polynesia (general works; also Drake del Castillo; Seurat); French Guiana (Lanessan, Les plantes utiles, p. 842-872).

General

Guillemin, J. B. A. Zephyritis taitensis. Énumération des plantes découvertes par les voyageurs, dans les Iles de la Société, principalement dans celle de Taïti. Annales Sci. Nat. II, Bot. 6: 297-320. 1836; 7: 177-192, 241-255, 340-370. 1837.—Supplément . . . par E. Jardin. Mém. Soc. Imp. Sci. Nat. Cherbourg 7: 239-244. 1860.

Botanical explorations, phytogeography, with special lists; list of cellular and vascular plants (363 species) known from the Society Islands, with references and localities, and many descriptions quoted from Forster's manuscript. The supplement adds 123 species of cellular and vascular plants.

Henry, Teuira. Flora of the Society and Tuamotu Islands. In her Ancient Tahiti. Bul. Bern. P. Bishop Mus. 48: 33-68. 1928.

Extensively annotated list of wild and cultivated useful plants, with vernacular names.

Seurat, L. G. Vocabulaire des termes d'histoire naturelle (animaux et plantes), dans les dialectes tahitien, tuamotu, mangarévien et marquisien. 28 p. 22.5 cm. [Chalon-s.-Saône, 19-?]

Alphabetical list of vernacular names, with scientific equivalents; bibliography.

Local

Butteaud, Édouard. Flore tahitienne. 128 p. 23.5 cm. Papeete, 1891.

Partly annotated list of vascular and cellular plants; alphabetical list of Tahitian names, with botanical and French equivalents.

Cuzent, Gilbert. *Iles de la Société. Tahiti. Considérations géologiques, météorologiques et botaniques sur l'île . . .* 275 p. 1 pl., 2 maps. 25 cm. Rochefort, 1860.

Physiography, anthropology, etc.; economic plants; annotated list of 532 vascular plants, of which 248 are introduced, prepared with the assistance of M. Pancher.

Nadeaud, Jean. *Énumération des plantes indigènes de l'île de Tahiti . . .* v, 86 p. 24 cm. Paris, 1873.

General features of flora; annotated list of 508 plants (417 vascular) collected by author in 1856-59, with vernacular names (indexed).

Plantes usuelles des Tahitiens. 52 p. 25 cm. Montpellier, 1864. (Thèse.)

Extensively annotated list of useful plants of Tahiti, with vernacular names.

Setchell, W. A. *Phytogeographical notes on Tahiti. I. Land vegetation.* Univ. Calif. Pub. Bot. 12: 241-290. 1926.

Plant formations, geographical relationships, statistics, etc.; bibliography.

Tahitian spermatophytes collected by W. A. Setchell, C. B. Setchell and H. E. Parks. Univ. Calif. Pub. Bot. 12: 143-213. pl. 23-36. 1926.

Annotated list of species, with vernacular names; references to literature.

SUMATRA

See also Dutch East Indies (general works; also Junghuhn; Koorders-Schumacher; Rendle; Steenis, On the origin).

General

Miquel, F. A. W. *Prodromus florae sumatranæ.* xx, 656 p. 4 pl. 23.5 cm. Amsterdam, 1860. (His *Flora Indiae batavæ. Supplementum primum.*) (German ed., 1862: *Sumatra, seine pflanzenwelt und deren erzeugnisse.*)

Botanical explorations, bibliography, physiography, climate, plant formations, economic plants; list of spermatophytes (2,642 species) with references to descriptions in vol. 1-3 of his *Flora Indiae Batavæ* and descriptions of plants not included in those volumes.

Local

Bartlett, H. H. *Sumatran plants collected in Asahan and Karoland, with notes on their vernacular names.* Papers Mich. Acad. Sci. 6: 1-66. 1927.

Two annotated lists; vernacular names, uses; notes on spelling of vernacular names, with bibliography of subject.—See also his *The Batak lands of north Sumatra . . .* Nat. and Appl. Sci. Bul. Univ. Philippines 4: 211-323. 2 maps. 1935. (Includes account of collections made in Oostkust, with footnote references; gazetteer.)

Bruijn Kops, G. F. de. *Lijst van boomen en planten, gevonden wordende in de residentie Riouw, op de oostkust van Sumatra en omliggende landen.* Tijdschr. Indische Taal-, Land- en Volkenk. 2: 271-317. 1854.

Alphabetical list of Malayan names, with botanical equivalents and uses.

Hasselt, A. L. van, and Boerlage, J. G. *Bijdragen tot de kennis der flora van Midden-Sumatra.* 50 p. 8 pl. 27.5 cm. Leiden, 1884. (Midden-Sumatra. Reizen en onderzoekingen der Sumatra-expeditie . . . 1877-79, beschreven . . . van P. J. Veth. 4. deel, natuurlijke historie, 2. gedeelte, Flora.)

Annotated list of vascular and cellular plants, collected on the Aardrijkskundig Genootschap Sumatra expedition of 1877-79.

Merrill, E. D. *An enumeration of plants collected in Sumatra by W. N. and C. M. Bangham.* Contrib. Arnold Arboretum no. 8. 178 p. 14 pl. 1934.

Geographical affinities of flora, botanical explorations (with partial bibliography); list of about 484 vascular plants collected in 1931-32 in northern Sumatra.

New Sumatran plants. I-IV. Papers Mich. Acad. Sci. 19: 149-203. pl. 16-35. 1934; 20: 95-112. 1935; 23: 177-202. 1938; 24 (1): 63-92. 1939.

Part 1: descriptions of new species based on the collections of H. H. Bartlett, H. S. Yates, and others; pt. 2: records of species new to Sumatra and range extensions in Sumatra; pt. 3-4: new species and new records.

Ridley, H. N. *A botanical excursion to northern Sumatra.* Jour. Malay. Branch Roy. Asiatic Soc. 1: 46-113. 1923.

Annotated list of vascular plants collected by the author and others in 1921.

Ridley, H. N. The flora of the Mentawi Islands. *Bul. Misc. Inform. Kew* 1926: 57-94. 1926.

General features of flora; list of 365 species collected by the expedition of C. Boden Kloss in 1914. (West of Sumatra.)

Plants from Bencoolen, Sumatra. Collected by Mr. C. J. Brooks. *Bul. Misc. Inform. Kew* 1925: 76-94. 1925.

List of phanerogams (also mosses, by H. N. Dixon). (West coast of Sumatra.)

Spermatophyta and Pteridophyta [sic]. In *Results of an expedition to Korinchi Peak, Sumatra. Pt. IV. Jour. Fed. Malay States Mus.* 8: 13-135. 1917.

List of 778 vascular plants, with locality, general range, and frequent annotations.

Steenis, C. G. G. J. van. Report of a botanical trip to the Ranau region, south Sumatra. *Bul. Jard. Bot. Buitenz. III*, 13: 1-56. 11 fig. (incl. pl., maps). 1933.

Topography, geology, botanical explorations (with footnote references), plant associations, phytogeography; no complete list of species.

NORTH AMERICA

New York Botanical Garden. North American flora. New York, 1905-1939.

Complete but unannotated descriptive systematic treatment of the flora of the North American continent, Greenland, and the West Indies; Trinidad, Tobago, and Curaçao are not included. The work is planned to occupy 34 volumes, of which v. 16-34 are to be devoted to vascular plants; none of the latter are completed.

ALASKA

See also Canada (Macoun); Mackenzie (Macoun and Holm); Yukon (Macoun, List of plants collected during 1911 and 1912); Greenland (Hooker; Ostenfeld, *Flora Arctica*); United States (general works).

General

Dall, W. H. Alaska and its resources. xii, 627 p. illus., plates, map. 23.5 cm. Boston, 1870.

Includes (p. 589-594) unannotated list of useful plants, with localities; also bibliography of Alaska.

Rothrock, J. T. Sketch of the flora of Alaska. *Ann. Rpt. Smithsn. Inst.* 1867: 433-463. 1872.

General features of flora; compiled list of 732 vascular and cellular plants, with localities.

Taylor, R. F. Pocket guide to Alaska trees. *Misc. Pub. U. S. Dept. Agr.* 55. 39 p. illus., map. 1929.

General features of forests: annotated briefly descriptive list of 28 trees, with local range; a popular treatment.

Local

Anderson, J. P. Notes on the flora of Sitka, Alaska. *Proc. Iowa Acad. Sci.* 23: 427-482. pl. 16-31. [1917.]

Topography, climate, botanical explorations, life zones, plant associations, economic plants, annotated list of fungi.

Plants of southeastern Alaska. *Proc. Iowa Acad. Sci.* 25: 427-449. [1919].—Supplemental list . . . l. c. 26: 327-331. [1920.]

Localities visited; annotated list of vascular plants, mainly collected at Sitka and Juneau.

Plants used by the Eskimo of the northern Bering Sea and Arctic regions of Alaska. *Amer. Jour. Bot.* 26: 714-716. 1939.

Annotated list of 40 vascular plants, with vernacular names; used mostly for food.

Bongard, H. G. Observations sur la végétation de l'île de Sitcha. *Mém. Acad. Sci. St. Pétersb. VI. Sci. Math., Phys., et Nat.* 2: 119-177. pl. 1-6. 1832 [1833].

Climate, soil, etc.; list of 222 vascular plants collected by Mertens, with technical annotations.

Cooper, W. S. The seed-plants and ferns of the Glacier Bay National Monument, Alaska. *Bul. Torrey Club* 57: 327-338. 1930.—Additions to the flora . . . 1935-1936. l. c. 66: 453-456. 1939.

Recent history of region, plant communities; annotated list of vascular plants.

Coville, F. V. Flora of the region. In Brooks, A. H. The Mount McKinley region, Alaska . . . U. S. Geol. Survey Prof. Paper 70: 208-211. 1911.

List of vascular plants collected by L. M. Prindle, with localities.

—— List of plants, collected in Seward Peninsula by Arthur J. Collier. In Brooks, A. H. Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900. p. 167-174. Washington, 1901.

Annotated list of vascular plants, with localities; also cellular plants. A publication of the U. S. Geological Survey.

—— and Wight, W. F. List of plants collected in northern Alaska by W. L. Poto in 1901. In Mendenhall, W. C. Reconnaissance from Fort Hamlin to Kotzebue Sound, Alaska . . . U. S. Geol. Survey Prof. Paper 10: 58-65. 1902.

Annotated list of vascular plants.

—— Wight, W. F., and Merrill, E. D. Arctic plants collected. In Schrader, F. C. A reconnaissance in northern Alaska across the Rocky Mountains, along Koyukuk, John, Anaktuvuk, and Colville Rivers, and the Arctic coast to Cape Lisburne, in 1901. U. S. Geol. Survey Prof. Paper 20: 130-134. 1904.

List of vascular plants, with localities, collected from Nulato north to Point Barrow.

Eastwood, Alice. A descriptive list of the plants collected by Dr. F. E. Blaisdell at Nome City, Alaska. *Bot. Gaz.* 33: 126-149, 199-213, 284-299. 10 fig. (incl. map). 1902.

Physiography, etc.; list of 170 vascular plants, with descriptions of all above Juncaceae.

Evans, W. H. The agricultural outlook of the coast region of Alaska. U. S. Dept. Agr. Yearbook 1897: 553-576. pl. 32-35. 1898.

Includes (p. 561-566) notes on forests, grasses, berries, and other useful native plants.

Funston, Frederick, and Coville, F. V. Botany of Yakutat Bay, Alaska. *Contrib. U. S. Natl. Herb.* 3: 325-353. 1896.

Annotated list (137 species and varieties of vascular plants, 27 of cellular plants) by Coville; field report by Funston.

Gorman, M. W. Economic botany of southeastern Alaska. *Pittonia* 3: 64-85. 1896.

Annotated list of useful plants.

Gray, Asa. Plants. In Report of the International Polar Expedition to Point Barrow, Alaska. p. 191-192. Washington, 1885.

Annotated list of vascular and cellular plants, the latter based on a report by Farlow.

Hultén, Eric. Flora of the Aleutian Islands and westernmost Alaska Peninsula with notes on the flora of Commander Islands. 397 p. 6 fig. (incl. maps), 16 pl. 26 cm. Stockholm, 1937.

Botanical explorations, geology, climate, plant associations, phytogeography; annotated list of 477 species of vascular plants, with citation of exsiccatae and map of distribution of each species in the region (plus 2 species added in "Additions," p. 341-342); bibliography. The region covered includes the westernmost tip of the Alaska Peninsula (from 162° westward), the Aleutian Islands, and the Commander Islands.

Kjellman, F. R. Fanerogamer från Vest-Eskimåernas land. In Norden-skiöld, A. E. Vega-expeditionens vetenskapliga iakttagelser. v. 2, p. 25-60. pl. 3. Stockholm, 1883.

Annotated list of phanerogams collected by the Vega Expedition in 1879 at Port Clarence, containing about 45 species not in Seemann's Flora.

—— Fanerogamfloran på St. Lawrence-ön. In Nordenskiöld, A. E. Vega-expeditionens vetenskapliga iakttagelser. v. 2, p. 1-23. pl. 1-2. Stockholm, 1883.

Previous botanical explorations, plant geography, etc.; unannotated list of 96 phanerogams collected on St. Lawrence Island by the Vega Expedition in 1879; list of species recorded but not found by the author.

Knowlton, F. H. List of plants collected by Mr. Charles L. McKay at Nushagak, Alaska, in 1881, for the United States National Museum. Proc. U. S. Natl. Mus. 8 (1885): 213-221. 1886.

Annotated list of vascular and cellular plants.

Kurtz, Fritz. Die flora des Chilcatgebietes im südöstlichen Alaska, nach den sammlungen der gebürtler Krause. Bot. Jahrb. Engler 19: 327-431. 1894.

Physiography, general features of the flora, life zones, useful plants, list of vernacular names (of Tlinkit Indians), bibliography; list of 498 vascular plants with localities, also cellular plants.

Macoun, J. M. A list of plants of the Pribilof Islands, Bering Sea, with notes on their distribution. In Jordan, D. S. The fur seals and fur-seal islands of the North Pacific Ocean. pt. 3, p. 559-587. pl. 87-94. Washington, 1899.

Botanical explorations, general features of flora; annotated list of 184 vascular plants (also cellular plants) known from the area; table of distribution; bibliography.—See also McAtee, W. L. Additions to the flora . . . Torreya 22: 67. 1922.

Merriam, C. H. Plants of the Pribilof Islands, Bering Sea, with critical notes by J. N. Rose. Proc. Biol. Soc. Washington 7: 133-150. 1892.

Physiography, climate, general features of flora; annotated list of vascular and cellular plants, mainly from specimens collected by the author in 1891.

Mertie, J. B. The Chandalar-Sheenjek district, Alaska. U. S. Geol. Survey Bul. 810: 87-139. 2 fig. (maps), 2 fold. maps (in pocket). 1930.

Includes general account of woody plants and list of vascular plants collected by author and identified by P. C. Standley (p. 105-109).

Muir, John. The cruise of the *Corwin*. Journal of the Arctic expedition of 1881 in search of DeLong and the *Jeannette*. Edited by W. F. Badè. xxxi, 278 p. plates, map. 21.5 cm. Boston, 1917.

The "Botanical notes" (p. 259-272) include general features of vegetation, physiography, etc., of Unalaska, St. Lawrence Island, St. Michael, Golofnin Bay, Kotzebue Sound, Cape Thompson, Cape Prince of Wales, 20 miles east of Cape Lisburne, Cape Wankarem (Siberia), Plover Bay (Siberia), Herald Island (Siberia), Wrangell Land (Siberia); all but the first two with lists of species collected. The "Botanical notes" are reprinted in Torreya 18: 197-210. 1918.

Osgood, W. H. Natural history of the Cook Inlet region, Alaska. North Amer. Fauna 21: 51-81. pl. 6-7. 1901.

Includes (p. 53-56) general features of the flora and list of woody plants collected or observed.

Porsild, A. E. Contributions to the flora of Alaska. Rhodora 41: 143-183, 199-254, 262-301. 1 fig. (map), pl. 551-554. 1939.

Botanical collections examined, author's itinerary in 1926, with general features of flora at various localities and list of principal collecting localities; list of vascular plants collected (648 species and principal subspecies and varieties, of which 93 are new to Alaska) with frequent annotations.

Flora of Little Diomed Island in Bering Strait. Proc. and Trans. Roy. Soc. Canada III, 32 (V, Biol. Sci.): 21-38. 1938.

Topography, geology, climate, fauna, general features of flora; annotated list of vascular plants collected by author in 1926; bibliography. Also known as Krusenstern Island.

Seemann, Berthold. Flora of western Eskimaux-land. In his The botany of the voyage of H. M. S. *Herald* . . . during the years 1845-51. p. 9-56. pl. 1-11 (incl. map). London, 1852.

History, geography, soil, climate, general features of flora; list of 315 plants (249 vascular), with references, localities, and occasional annotations. (Coast from Norton Sound to Franklin Point, also St. Lawrence Island.)

Steffen, Hans. Ein beitrage zur flora von Alaska. Beih. Bot. Centralbl. Abt. B. 54: 547-556. 3 fig. 1936.

General features of vegetation; list of 70 angiosperms collected in vicinity of Circle Springs, near Fairbanks, by Joseph Ulmer.—See also his Verstreute beiträge zur flora der Arktis I. Zur flora von Alaska. l. c. 58: 100-104. 2 fig. 1938. (Adds 39 species.)

Tatewaki, Misao, and Kobayashi, Yoshio. A contribution to the flora of the Aleutian Islands. Jour. Faculty Agr. Hokkaido Imp. Univ. 36: 1-119. 5 fig., 8 pl., map. 1934.

Geography, plant communities; annotated list of vascular plants collected by the authors.

Turner, L. M. Contributions to the natural history of Alaska. Results of investigations made chiefly in the Yukon district and the Aleutian Islands. 226 p. 26 pl. (pt. col.). 30 cm. Washington, 1886. (Arctic series of publications issued in connection with the Signal Service, U. S. Army, no. II.)

Includes (p. 61-85) a partly annotated list of vascular and cellular plants, with localities, based on Rothrock's list of 1872.

CANADA

See also United States (general works, also Northeastern and Western).

The boundaries of the Canadian Provinces have undergone considerable change during their recent history. The maps in the Times Survey Atlas of the World (1922) represent the present boundaries (except that Labrador now extends much farther west into Quebec), and have been followed as a guide. The three districts into which the Northwest Territories are divided are here separated, for convenience, as follows: Mackenzie, the mainland between Yukon Territory and 102° W. Long.; Keewatin, mainland (exclusive of Boothia and Melville Peninsulas) between 102° W. Long. and Hudson Bay, together with islands (Southampton, Coats, and Mansel Islands, and those south of them) in Hudson and James Bays; Franklin, Boothia and Melville Peninsulas and all islands in Hudson Strait and Arctic waters except those adjacent to the Yukon coast.

Adams, John. A bibliography of Canadian plant geography to the end of the year 1920 [-35]. Trans. Roy. Canad. Inst. 16: 293-355. 1928; 17: 103-145. 1929; 17: 227-265, [for 1921-25] 267-295. 1930; [for 1926-30] 18: 343-373. 1932; [for 1931-35] 21: 95-134. 1936.

Unannotated list of floristic papers, grouped chronologically and arranged alphabetically by authors; 3,399 Canadian titles, plus 197 on Greenland in the "Appendix on the flora of Greenland" in the 1936 paper. M. H. Norwell was joint author in 1932 and 1936.

Fyles, Faith. Principal poisonous plants of Canada. Bul. Expt. Farms Canada 2d ser., no. 39. xi, 112 p. illus., 8 col. pl. 1920.

Annotated account, with descriptions, properties, symptoms, and remedies; bibliography.

MacKay, A. H. Bibliography of Canadian-botany, 1900[-15]. Proc. and Trans. Roy. Soc. Canada II, 7 (sect. IV): 141-142. 1901; 8 (sect. IV): 157-160. 1902; 9 (sect. IV): 169-172. 1903; 10 (sect. IV): 153-160. 1905; 11 (sect. IV): 143-152. 1906; 12 (sect. IV): 33-48. 1906; III, 4 (sect. IV): 121-153. 1911; 5 (sect. IV): 177-189. 1912; 6 (sect. IV): 129-137. 1913; 7 (sect. IV): 175-185. 1914. Trans. Roy. Soc. Canada III, 8 (sect. IV): 25-35. 1914; 9 (sect. IV): 251-261. 1916; 10 (sect. IV): 189-199. 1917.

Annual bibliographies, alphabeted by authors. Earlier numbers have title Botanical bibliography of Canada.

Macoun, John. Catalogue of Canadian plants. 3 v. 24.5 cm. Montreal, 1883-1902.

Annotated list of vascular and cellular plants with localities; Alaskan and Newfoundland plants are included. The vascular plants (v. 1-2, 1883-1890) number 3,209 species (including additions in v. 2).—For additions see Macoun, J. M. Contributions to Canadian botany I-XVIII. Canad. Rec. Sci. 6: 23-27, 76-88, 141-153, 193-210, 264-276, 318-329, 405-415, 459-469. 1894-95; 7: 39-50, 267-286, 463-477. 1896-97. Ottawa Nat. 12: 161-172. 1898; 13: 159-169. 1899; 15: 71-79, 267-275. 1901-02; 16: 211-223. 1903; 20: 135-141, 162-171. 1906. (Reprinted.)

Morton, B. R., and Lewis, R. G. Native trees of Canada. Bul. Forest Branch Dept. Interior Canada no. 61. 233 p. (incl. illus. (maps), plates). 1917.

Descriptions, range, uses, maps showing local range of each species; synoptical descriptive tables, figures of leaves, fruits, and often twigs, habit photographs.

Penhallow, D. P. A review of Canadian botany from the first settlement of New France to the nineteenth century. Proc. and Trans. Roy. Soc. Canada 5 (sect. IV): 45-61. 1887.—Review . . . from 1800 to 1895. l. c. II, 3 (sect. IV): 3-56. 1897.

Botanical explorers, botanical gardens and societies; bibliographies.

Provancher, Léon, *abbé*. Flore canadienne ou descriptions de toutes les plantes des forêts, champs, jardins et eaux du Canada . . . 2 v. (cont. paged). 420 fig. 22.5 cm. Québec, 1862.

Descriptive flora, with vernacular names (largely artificial) and uses; includes cultivated plants. Of little value as a flora.

ALBERTA

See also Mackenzie (Preble); Manitoba (Tyrrell); United States, Western (Kirkwood; Rydberg, Flora of the Rocky Mountains).

Local

Farr, E. M. Contributions to a catalogue of the flora of the Canadian Rocky Mountains and the Selkirk Range. Contrib. Bot. Lab. Univ. Penn. 3: 1-88. map. 1907.

General features of flora; list of vascular plants, with localities, based mainly on the author's collections in 1904-05. The region covered is in southern British Columbia and southern Alberta, between Banff and Glacier.

Raup, H. M. Botanical investigations in Wood Buffalo Park. Bul. Natl. Mus. Canada no. 74 (Biol. Ser. 20). 174 p. illus., maps. 1935.

Botanical investigations, soils, geology, physiography, climate, types of vegetation, plant associations; annotated list of vascular plants (449 species and 12 additional varieties); bibliography. The region is in northeastern Alberta and southeastern Mackenzie, south of Great Slave Lake.

——— Phytogeographic studies in the Athabaska-Great Slave Lake region. I. Catalogue of vascular plants. Jour. Arnold Arboretum 17: 180-240, 241-315. pl. 190-200, fold. map. 1936.

Botanical explorations, geography (with gazetteer); annotated list of 739 vascular plants (696 species), with citation of exsiccatae. Covers northeastern Alberta, northwestern Saskatchewan, and southeastern Mackenzie (about 105°-119° W. Long., 55°-63° N. Lat.).

Standley, P. C. Plants of the Alpine Club expedition to the Mount Robson region. Canad. Alpine Jour., special no. 1912. p. 76-97. 5 pl. 1912 (1913).

Annotated list of 147 species collected in the Mount Robson region of eastern British Columbia and western Alberta in 1911 by N. Hollister and J. H. Riley.

BRITISH COLUMBIA

See also Alberta (Farr; Standley); Yukon (Macoun, List of plants collected by Dr. G. M. Dawson); United States, Western (Frye and Riggs; Kirkwood; McMinn and Maino; Rydberg, Flora of the Rocky Mountains).

General

Anderson, J. B. Trees and shrubs, food, medicinal and poisonous plants of British Columbia. 165 p. illus., map. 25.5 cm. Victoria, B. C., 1925.

Descriptions of woody plants; annotated lists of food plants, with native methods of cooking, and of medicinal and poisonous plants.

Griffith, B. G. A pocket guide to the trees and shrubs of British Columbia. 69 p. 23 cm. Victoria, 1934.

Systematic list, with keys and descriptions.

Local

Brown, Robert (of Campster). On the vegetable products, used by the northwest American Indians as food and medicine, in the arts and in superstitious rites. Trans. Bot. Soc. Edinb. 9: 378-396. 1868. (Also in Pharm. Jour. and Trans. II, 10: 89-94, 168-174. 1868.)

Descriptive account, the plants classified by uses. Refers mainly to Oregon, Washington, and British Columbia.

Carter, W. R., and Newcombe, C. F. A preliminary catalogue of the flora of Vancouver and Queen Charlotte Islands. 86 p. 26 cm. Victoria, 1921.

Annotated list of vascular plants.—For additions (1921-26) see Rpt. Prov. Mus. Nat. Hist. Brit. Columbia 1921: 16; 1922: 15; 1923: 15; 1924: 23; 1925: 17; 1926: 10.—Additions since 1926, l. c. 1937: 11.

Davidson, John. Contribution to the flora of British Columbia (Garibaldi Mountain region). Ann. Rpt. (2d, 1914) Bot. Off. Brit. Columbia 1: 58-74. 4 pl. 1915.

Annotated list of vascular plants.

——— List of plants found during the botanical exploration of the Skagit River basin. Ann. Rpt. (3d, 1915) Bot. Off. Brit. Columbia 1: 111-134. 1916.

List of 456 vascular plants, with localities.

Glendenning, Reginald. An annotated check list of the flowering plants and ferns, native and introduced, growing without cultivation in the Cowichan district, Vancouver Island, B. C. Cowichan Field Nat. Club Bul. no. 1. 20 p. 1918.

Annotated list of vascular plants. The area covered includes the valleys of the Chemainus, Cowichan, and Koksilah Rivers, from Chemainus south to Shawnigan and west to Cowichan Lake. Publication has only cover title.

Graham, Roy. Notes on the flora of the Peace River. Rpt. Prov. Mus. Nat. Hist. Brit. Columbia 1933: B13-B24. 1934.

List of about 250 vascular plants; general features of flora; useful and poisonous plants.

Henry, J. K. Flora of southern British Columbia and Vancouver Island, with many references to Alaska and northern species. xiii, 363 p. 21.5 cm. Toronto, 1915.

Descriptive flora of vascular plants, with keys; brief account of floral regions; glossary.

Osgood, W. H. Natural history of the Queen Charlotte Islands, British Columbia. North Amer. Fauna 21: 7-50. 1 fig., 5 pl. (incl. map). 1901.

Includes (p. 11-16) general features of the flora and list of cellular and vascular plants collected.

Raup, H. M. Phytogeographic studies in the Peace and upper Liard River regions, Canada, with a catalogue of the vascular plants. Contrib. Arnold Arboretum no. 6. 230 p. 6 fig., 9 pl., map. 1934.

History, geology, climate, phytogeography, formations, bibliography; annotated list of 754 species and 30 additional varieties of vascular plants. (North-eastern British Columbia and adjacent Mackenzie.)

Rosendahl, C. O. Observations on plant distribution in Renfrew district of Vancouver Island. Postelsia 1906: 1-132. pl. 1-11. 1906.

Topography, climate, plant formations, etc.; annotated list of 253 vascular plants.

Smith, H. I. Materia medica of the Bella Coola and neighbouring tribes of British Columbia. Bul. Natl. Mus. Canada 56: 47-68. 1929.

Systematic list of medicinal plants, with methods of use. (Bella Coola tribe of Bella Coola valley, Gitksan of Skeena River, the Carrier who live in the territory behind both these tribes, and the Sikani of the headwaters of Peace River.)

Steedman, E. V. Ethnobotany of the Thompson Indians of British Columbia. Based on field notes by James A. Teit. Ann. Rpt. Bur. Amer. Ethnol. 45 (1927/28): 441-522. 1930.

Principles of plant names used by these Indians; annotated classified lists of medicinal, edible, and other useful plants, with vernacular and botanical names; list of botanical names. (Southwestern British Columbia.)

Ulke, Titus. A flora of Yoho Park, British Columbia. Contrib. Biol. Lab. Catholic Univ. Amer. no. 14. 89 p. 10 pl. 1934.

Botanical explorations, geology; annotated list of 565 vascular plants, with keys; bibliography. (On eastern edge of British Columbia, about 51°20' N. Lat.)

——— List of the vascular plants of the Horsethief Creek-Purcell Range, B. C. Canad. Field-Nat. 49: 49-55, 71-76. 1935.

Annotated list of 405 vascular plants collected by the author in 1928. (Extreme southeastern British Columbia.)

FRANKLIN

See also Greenland (Holm; Hooker; Ostenfeld, Flora Arctica; Rikli); Mackenzie (Porsild; Preble; Stefánsson); Manitoba (Tyrrell).

General

Simmons, H. G. A survey of the phytogeography of the Arctic American archipelago with some notes about its exploration. Lunds Univ. Årsskr. n. f., afd. 2, v. 9, no. 19. 183 p. 2 maps. 1913.

Botanical explorations, with table showing their results in number of species; geography, geology, temperature; list of islands, and localities where collections

have been made, with position; annotated list of 204 vascular plants, with localities; phytogeography, origin of flora, bibliography. The region covered is bounded by Banks Land, Victoria Land, Boothia Felix, Melville Peninsula, Southampton and adjacent islands, Baffin Land, Ellesmere Land, and Prince Patrick Island.

Local

Ambrohn, Hermann. Phanerogamen und gefäss-kryptogamen vom Kingua-fjord. In Die internationale polarforschung 1882-83. Die Deutsche expeditionen . . . v. 2, p. 75-92. Berlin, 1890.

Annotated list of vascular plants. (Baffin Land.)

Fernald, M. L. Baffin Land plants collected by the Macmillan expedition, 1922. *Rhodora* 25: 111-114. 1923.

List of vascular plants, with localities.

Greely, A. W. Botany. In his Report on the proceedings of the United States expedition to Lady Franklin Bay, Grinnell Land. v. 2, p. 11-18. Washington, 1888. (International polar expedition.)

Includes annotated list of 69 vascular plants collected in vicinity of Fort Conger, Grinnell Land (81°44' N., 64°45' W.); also list of mosses and lichens.—Essentially the same list is given by G. Vasey, *Bot. Gaz.* 10: 364-366. 1885. (Ellesmere Land.)

Johansen, Frits. Vascular plants collected during the Canadian Hudson Strait expedition in 1927. *Canad. Field-Nat.* 48: 126-131. 1934.

List of about 110 vascular plants collected by the author in 1927 at Port Burwell, Wakeham Bay, and Eric Cove, Ungava; Lake Harbour, at south end of Baffin Island; and Nottingham Island, at west end of Hudson Strait.

Macoun, J. M. List of plants collected by Mr. J. G. McMillan on Melville Island, in the autumn of 1908 and early summer of 1909. In Bernier, J. E. Report on the Dominion of Canada government expedition to the Arctic islands and Hudson Strait on board the D. G. S. *Arctic*. p. 489-491. Ottawa, 1910.

Unannotated list of vascular plants (and 2 mosses and lichens).

Ostenfeld, C. H. Vascular plants collected in Arctic North America (King William Land, King Point and Herschell Isl.) by the *Gjøa* expedition under Captain Roald Amundsen 1904-1906. *Skr. Vidensk.-Selsk. Christiania I. Math.-Naturv. Kl.* 1909. no. 8. vi, 73 p. 3 pl. 1910.

Separate annotated lists for King William Land (63 species) and for King Point and Herschell Island (110 species); references to earlier publications. (King William Land, Franklin; King Point and Herschell Island, Yukon.)

Polunin, Nicholas. The flora of Akpatok Island, Hudson Strait. *Jour. Bot.* 72: 197-204. 1934.

General features of flora; list of 391 cellular and vascular plants. There are 123 angiosperms, including 22 species, forms, and hybrids of *Draba*.

Simmons, H. G. Stray contributions to the botany of North Devon and some other islands, visited in 1900-1902. With . . . an alphabetical index to no. 2, *Flora of Ellesmereland*, no. 16, *Plants of N. W. Greenland*, and this paper. Report of the 2d Norwegian Arctic expedition in the *Fram* 1898-1902. no. 19. 36 p. 1 fig. (map). Kristiania, 1909.

Includes list of vascular plants from various localities in North Devon, Castle Island and Devil's Isle, North Kent, Graham and Buckingham Islands, Heiberg Land, Schei Island and Big Island, Rignes Lands.

— The vascular plants in the flora of Ellesmereland. Report of the 2d Norwegian Arctic expedition in the *Fram* 1898-1902. no. 2. 197 p. 5 fig., 10 pl., map (in text). Kristiania, 1906.

Geography, botanical explorations, phytogeography, gazetteer; annotated list of 115 species; bibliography.

KEEWATIN

See also Franklin (Simmons, A survey); Mackenzie (Porsild); Manitoba (Tyrrell); Greenland (Hooker; Ostenfeld, *Flora Arctica*).

Local

Polunin, Nicholas. The flora of Southampton Island, Hudson Bay. *Jour. Bot.* 76: 93-103. 1938.

Botanical explorations; list of 151 species and 20 minor forms of vascular plants now known, with names of collectors; bibliography.

Polunin, Nicholas. Vascular plants from Mansel (Mansfield) Island, N. W. T. Canad. Field-Nat. 52: 5-9. 1938.

History, botanical explorations; list of 45 species and 4 minor forms of angiosperms; bibliography.

Raup, H. M. Pteridophyta and Spermatophyta of Southampton Island. Mem. Carnegie Mus. Pittsburgh 12 (3): 17-30. 1936.

Botanical explorations; annotated list of 109 vascular plants, of which 66 had not been recorded previously.

LABRADOR

See also Newfoundland (Fernald, A botanical expedition; Waghorne).

General

Macoun, J. M. List of the plants known to occur on the coast and in the interior of the Labrador Peninsula. Ann. Rpt. Geol. Survey Canada n. s., 8: 353L-366L. 1897.

Table of vascular plants, showing range in Labrador.

Macoun, John. Catalogue of the plants reported by various travellers and others as growing on the coast of Labrador. In Packard, A. S. The Labrador coast. p. 451-474. New York, London, 1891.

Annotated list of vascular plants.

Meyer, E. H. F. De plantis labradoricis libri tres. xxii, 218 p. 19.5 cm. Lipsiae, 1830.

Bibliography of works on flora of Labrador and other northern regions; annotated list of 198 plants (168 vascular) from Labrador, with extralimital range; climate, phytogeography, etc., of Labrador and other northern regions.

Schlechtendal, D. F. L. von. Ueber die flora von Labrador. Linnaea 10: 76-114. 1836 [1835?].

Partly annotated list of 32 cellular and 206 vascular plants then known from Labrador, with references to E. Meyer's paper (1830) and Hooker's Flora Boreali-Americana; general features of flora.

Local

Abbe, E. C. Botanical results of the Grenfell-Forbes northern Labrador expedition, 1931. Rhodora 38: 102-161. 7 fig. (maps), pl. 408-411. 1936. (Contrib. Gray Herb. 111.)

Geology, botanical explorations with bibliographical footnotes, author's itinerary, general features of flora, phytogeography; annotated list of vascular plants. The region covered is on the northeast coast from Aillik to Ikordlearsuk.

Ascherson, P. F. A. Nachtrag zur flora von Labrador. Flora 43: 369-370. 1890.

List of vascular plants collected by Lundberg at Nain in 1847 and not recorded by previous writers.

Butler, S. R. Labrador plants. Canad. Nat. n. s., 5: 350-353. 1870.

Annotated list of vascular plants collected by the author, mainly at Amour Point, Forteau Bay, and Caribou Island; includes also several plants collected by Miss Macfarlane. (Extreme southern Labrador.)

Delabarre, E. B. Report of the Brown-Harvard expedition to Nachvak, Labrador, in the year 1900. Bul. Geog. Soc. Phila. 3: 65-212. plates, maps. 1902.

Includes chapter on botany (p. 167-201); general features of flora, annotated bibliography, list of vascular and cellular plants collected, with localities. For corrections, see footnote to his chapter on Flora in Grenfell, W. T. Labrador, the country and the people. New ed. p. 392-393. N. Y., 1913. (1st ed., 1909.)

Fernald, M. L., and Sornborger, J. D. Some recent additions to the Labrador flora. Ottawa Nat. 13: 89-107. 1899.

Annotated list of rarer species collected by the Bowdoin College expedition of 1891 and by J. D. Sornborger.

Hantzsch, Bernhard. Verzeichnis einer anzahl im nordöstlichsten Labrador gesammelter pflanzenarten. In his Beiträge zur kenntnis des nordöstlichsten Labradors. Mitt. Ver. Erdk. Dresden 1 (8): 220-222. 1909. (English transl.

List of a number of species of plants collected in the most north-eastern part of Labrador, in *Canad. Nat.* 45: 173-174. 1931.)

List of plants collected by the author and others north of 59° 30' N. Lat., with a few Eskimo names and uses.

Kew. Royal Gardens. Plants from Labrador. *Bul. Misc. Inform. Kew* 1907: 76-88. 1907.

List of vascular and cellular plants collected in 1905 and 1906 by Sir William MacGregor on the Chidley Peninsula at the north tip of Labrador and at Anse Sablon on the south coast.

MacKay, A. H. Labrador plants. (Collected by W. H. Prest on the Labrador coast north of Hamilton Inlet, from the 25th of June to the 12th of August, 1901.) *Proc. and Trans. Nova Scot. Inst. Sci.* 10: 507-508. 1903.

Unannotated list of phanerogams.

St. John, Harold. Notes sur la flore du Labrador. *Naturaliste Canad.* 51: 195-201. 1925.

Critical notes on a list of Labrador plants published by V. A. Huard in 1923, in the same journal (49: 183-186), which was based on observations by Abbé P. Lamay.

Wetmore, R. H. Plants of the Hamilton Inlet and Lake Melville region, Labrador. *Rhodora* 25: 4-12. 1923.

List of vascular plants collected by the author in 1921, with localities.

Woodworth, R. H. Interesting plants of northern Labrador. *Rhodora* 29: 54-57. 1927.

Annotated list of rarer species collected in northernmost Labrador by the author in 1926.

MACKENZIE

See also Alberta (Raup, Botanical investigations in Wood Buffalo Park, and Phytogeographic studies); British Columbia (Raup); Manitoba (Tyrrell); Greenland (Hooker; Ostenfeld, *Flora Arctica*).

Local

Macoun, J. M., and Holm, Theodore. The vascular plants of the Arctic coast of America west of the 100th meridian, collected by the Canadian Arctic expedition 1913-18. Report of the Canadian Arctic expedition 1913-18. v. 5, Botany. pt. A. 24 p. 13 pl., map. Ottawa, 1921.

List of 230 species, with localities, from Alaska, Yukon, and Mackenzie.

Porsild, A. E. Edible roots and berries of northern Canada. 17 p. 13 fig. 24.5 cm. Ottawa, 1937.

Annotated list of about 20 edible vascular plants of Arctic and sub-Arctic Canada, as well as some lichens.

Preble, E. A. Trees and shrubs of Athabaska-Mackenzie region. In his A biological investigation of the Athabaska-Mackenzie region. *North Amer. Fauna* 27: 515-534. fig. 16, pl. 24-25. 1908.

Annotated list, with notes on Indian uses. Covers Mackenzie and islands north of it, and the portions of Alberta and Saskatchewan north of 55° N. Lat.

Stefánsson, Vilhjálmur. My life with the Eskimo. ix, 538 p. plates, 2 maps. 23 cm. N. Y., 1913.

Contains (p. 445-448) notes on useful plants, with lists of species collected at Coronation Gulf (Mackenzie), southwestern Victoria Island (Franklin), Cape Bathurst (Mackenzie), and King Point (Yukon).

MANITOBA

See also United States, Western (Rydberg, *Flora of the prairies and plains*).

General

Burman, W. A. The Phanerogamia and Pteridophyta of Manitoba. In A handbook to Winnipeg and the Province of Manitoba prepared for the 79th annual meeting of the British Association . . . 1909. p. 157-182. map. Winnipeg, 1909.

Botanical districts; unannotated list of vascular plants.

Jackson, V. W., Higham, J. F., and Groh, Herbert. Check list of Manitoba flora (with notes). 35 p. illus. (incl. map). 24 cm. [Winnipeg,] 1922.

Briefly annotated list of 1,029 vascular plants. The map shows floral zones. In 1925 [?] the senior author issued an unpagged, unannotated, multigraphed list of vascular plants (Check list of Manitoba flora revised to December, 1924).

Local

Christy, R. M. Notes on the botany of Manitoba. Jour. Bot. 25: 271-276, 290-301. 1887.

General features of flora; annotated list of vascular plants (and 1 moss) collected by the author in 1883, mostly near Carberry.

Lowe, C. W. The flora of Warrens Landing, Lake Winnipeg, Man. Canad. Field-Nat. 34: 26-30. 2 fig. (incl. map). 1920.

General features of flora; unannotated list of vascular plants. (North end of Lake Winnipeg.)

Størmer, Per. Plants collected by Frits Johansen in 1929, at Hudson Bay Railway and Port Churchill in Arctic Canada. Nyt Mag. Naturvidensk. 73: 259-272. 1933.

Annotated list of vascular plants.

Tyrrell, J. W. Classified list of plants. In his Across the sub-arctics of Canada. p. 251-272. Toronto, 1897.

List of 233 plants (196 vascular), with localities, collected by the author in 1893 along route between Lake Athabasca and west coast of Hudson Bay, together with a collection made in 1885 at Ashe Inlet on north shore of Hudson Strait and a collection made by Marjorie Lofthouse at Fort Churchill. Identifications by J. Macoun.

NEW BRUNSWICK

General

Fowler, James. Preliminary list of the plants of New Brunswick. Bul. Nat. Hist. Soc. New Brunswick 1 (4): 8-84. 1885. (Reprinted 82 p. 1885.)

Previous publications; annotated list of 942 vascular plants, with additional list of ballast plants. See also Report of the Committee on botany [list of plants new to the Province . . .] l. c. 3 (11): 48-50. 1893.—Also Hay, G. U. Additions to plants of New Brunswick. l. c. 5: 358-363. 1905.

Local

Fowler, James. Report on the flora of St. Andrews, N. B. Contrib. Canad. Biol. Mar. Biol. Sta. Canada 1901: 41-48. 1901.

General features of flora; unannotated list of 331 plants (299 vascular) collected by the author in June-August, 1900.—Also appeared with slight changes as A visit to St. Andrew's, N. B., with a catalogue of plants collected in its vicinity. Proc. Nat. Hist. Assoc. Miramichi 2: 21-28. 1901.

Klugh, A. B. Notes on the flora of the St. Croix River valley and Passamaquoddy region, New Brunswick. Contrib. Canad. Biol. Mar. Biol. Sta. Canada 1906/10: 265-276. pl. 27-29. 1912.

Annotated list of vascular and some cellular plants collected by the author in July to September 1909, arranged in ecological groups.

Vroom, James. A list of flowering plants and ferns found in Charlotte County, New Brunswick. 12 p. 23.5 cm. St. Stephen, N. B., 1887.

Briefly annotated list of vascular plants.

NEWFOUNDLAND (INCLUDING ST. PIERRE ET MIQUELON)

General

Beeks, Henry. A list of the flowering plants and ferns of Newfoundland, with meteorological observations. 30 p. 21 cm. Newbury [England], 1873.

List, p. 2-7, of 371 species identified by the author in 1866-68. Many of the identifications are erroneous, and the list is long out of date.

Waghorne, A. C. The flora of Newfoundland, Labrador and St. Pierre et Miquelon. *Proc. and Trans. Nova Scot. Inst. Sci.* 8: 359-373. 1893; 9: 83-100, 361-401. 1896-98.

Bibliography; list of 538 species (Polypetalae and Gamopetalae), with localities; largely compiled.

Local

Arsène, Louis, frère. Contribution to the flora of the islands of St. Pierre et Miquelon. *Rhodora* 29: 117-133, 144-158, 173-191, 204-221. 1927.

Previous botanical work, with bibliographical footnotes, author's explorations, soil, phytogeography; annotated list of newly recorded or otherwise noteworthy species; table of known vascular plants (487 species, of which 391 are native), showing names of collectors.

Delamare, Ernest, Renauld, F., and Cardot, J. Flora miquelonensis. *Florule de l'île Miquelon (Amérique du Nord)* . . . *Annales Soc. Bot. Lyon* 15: 65-143. 1888. (Reprinted 78 p.)

Botanical explorations, topography, geology, climate, phytogeography; annotated list of vascular plants, mosses, hepatics, lichens, algae.

Eames, E. H. Notes upon the flora of Newfoundland. *Rhodora* 11: 85-99. 1909.

Records of plants from the western coast, collected in 1908 by E. H. Eames and C. C. Godfrey.

Fernald, M. L. A botanical expedition to Newfoundland and southern Labrador. *Rhodora* 13: 109-162. pl. 86-91. 1911. (*Contrib. Gray Herb.* 40.)

Previous botanical explorations, with footnote references to publications; itinerary of author's expedition, with mention of more important plants collected; geographic origin of flora. Known vascular plants are "scarcely 1,000 species."

Recent discoveries in the Newfoundland flora. *Rhodora* 35: 1-16, 47-63, 80-107, 120-140, 161-185, 203-223, 230-247, 265-283, 298-315, 327-346, 364-386, 395-403. 29 fig. (maps), pl. 232-273. 1933. (*Contrib. Gray Herb.* 101.)

Itinerary, etc.; phytogeography; range extensions, critical notes, and revisionary treatments of numerous species of plants.

Two summers of botanizing in Newfoundland. *Rhodora* 28: 49-63, 74-87, 89-111, 115-129, 145-155, 161-178, 181-204, 210-225, 234-241. pl. 153-155. 1926-27. (*Contrib. Gray Herb.* 76.)

Running account of the author's expeditions in 1924 and 1925; annotated list of noteworthy species collected.

Robinson, B. L., and Schrenk, Hermann von. Notes upon the flora of Newfoundland. *Canad. Rec. Sci.* 7: 3-31. 1896. (Reprinted.)

Previous explorations, general features of flora; annotated list of species collected by the authors in 1894. (Avalon Peninsula.)

NOVA SCOTIA

General

Lindsay, A. W. H. A catalogue of the flora of Nova Scotia arranged according to Gray's Manual of botany . . . *Proc. and Trans. Nova Scot. Inst. Nat. Sci.* 4: 184-222. 1877.

Tabular list of vascular and cellular plants, with localities.—See also How, Henry. *Additions . . . l. c.* p. 312-319. 1877.

Prest, W. H. Edible wild plants of Nova Scotia. *Proc. and Trans. Nova Scot. Inst. Sci.* 11: 337-416. 1908.

Annotated list of 77 plants classified according to parts used.

Local

Bailey, L. W. Notes on the geology and botany of Digby Neck. *Proc. and Trans. Nova Scot. Inst. Sci.* 9: 69-82. pl. 4-6. 1896.

Includes unannotated partial list of spermatophytes. (On peninsula in southwestern Nova Scotia.)

Campbell, G. G. List of plants collected in the neighbourhood of Truro, Nova Scotia, during the summer of 1883 and 1884. *Proc. and Trans. Nova Scot. Inst. Nat. Sci.* 6: 209-225. 1885.—Supplementary list . . . *l. c.* 6: 283-285. 1886.

Annotated list of vascular plants; Aster and Solidago omitted.

Cox, G. H. List of plants collected in and around the town of Shelburne. *Proc. and Trans. Nova Scot. Inst. Sci.* 8: 439-444. 1895.

Mostly unannotated list of vascular plants.

Fernald, M. L. The Gray Herbarium expedition to Nova Scotia, 1920. *Rhodora* 23: 89-111, 130-132, 153-171, 184-195, 223-245, 257-278, 284-300. pl. 130. 1921. (*Contrib. Gray Herb.* 63.)

Journal of expedition, with comments on various plants; annotated list of noteworthy species collected, including 110 new to Canada and 122 more first recorded from Nova Scotia.

Notes on the flora of western Nova Scotia, 1921. *Rhodora* 24: 157-164, 165-180, 201-207. 1922. (*Contrib. Gray Herb.* 66.)

Itinerary; annotated list of noteworthy species collected, including 37 new to Canada and 25 more new to Nova Scotia.

Fowler, James. Report on the flora of Canso, Nova Scotia. Further *Contrib. Canad. Biol. Mar. Biol. Sta. Canada* 1902/05: 59-70. 1907.

General features of flora; unannotated list of 298 plants (244 vascular).

Perry, L. M. The vascular flora of St. Paul Island, Nova Scotia. *Rhodora* 33: 105-126. 1 fig. (map). 1931. (*Contrib. Gray Herb.* 94.)

Physiography, general features of flora; annotated list of about 300 vascular plants collected by the author and Dr. Muriel V. Roscoe in 1929.

Robinson, C. B. Contributions to a flora of Nova Scotia. I. Plants collected in eastern Nova Scotia in August, 1906. *Bul. Pictou Acad. Scient. Assoc.* 1: 20-44. 1907.

List of cellular and vascular plants collected by the author, with localities and occasional annotations.

Rousseau, Jacques. Notes floristiques sur l'est de la Nouvelle-Écosse. *Naturaliste Canad.* 65: 285-315, 317-335. 8 fig. 1938.

Ecology; annotated list of vascular plants collected by author in 1930, mostly from vicinity of Guysborough; bibliographical footnotes.

St. John, Harold. Sable Island, with a catalogue of its vascular plants. *Proc. Boston Soc. Nat. Hist.* 36: 1-103. pl. 1-2. 1921. (*Contrib. Gray Herb.* 62.)

History, physiographic changes, animals, botanical explorations, plant habitats, phytogeography, etc.; annotated list of vascular plants (147 native species, varieties and forms; 51 adventive plants).

ONTARIO

See also Quebec (D'Urban; Potter); Michigan (Dodge, Flora of St. Clair County); Minnesota (Densmore); New York (Zenkert).

General

White, J. H. The forest trees of Ontario and the more commonly planted foreign trees. A guide to their identification . . . 80, v p. plates. 24.5 cm. Toronto, 1925.

Brief descriptions of the species, with illustrations of leaves, fruit, and twigs.

Local

Bailey, L. H. Plants collected or observed on Hunters' Island, British America, July 26 and 27, 1886. *Bul. Geol. and Nat. Hist. Survey Minn.* 3: 55-56. 1887.

Mostly unannotated list of vascular plants. (Southwestern Ontario, 48°15' N. Lat., 91°30' W. Long.)

Bell, John. On the plants of the Manitoulin Islands. *Rpt. Prog. Geol. Survey Canada* 1866/69: 449-469. 1870.

Topography, general features of flora; list of vascular plants, mosses, hepatics, lichens, and Characeae.

Billings, Braddish, jr. List of plants observed growing principally within four miles of Prescott, C. W., and for the most part in 1860. *Annals Bot. Soc. Canada* 1: 114-140. [1862.]

Annotated list of vascular plants, mosses, hepatics, lichens, and Characeae. Appears to consolidate his two earlier lists with similar titles in *Canad. Nat. and Geol.* 3: 39-50. 1858; 5: 14-24. 1860.

Dewey, L. H. The plants of islands 74 and 85 in the French River, Ontario. *Canad. Field-Nat.* 53: 127-130. 1939.

Topography, geology, climate, general features of flora; list of vascular plants collected by the author in 1939.

Dickson, J. M., and Alexander, Andrew. Flora of Hamilton district. *Jour. and Proc. Hamilton Assoc.* 13: 95-127. 1897.

Bibliography; unannotated list of vascular plants and Marchantiaceae.

Dodge, C. K. Annotated list of flowering plants and ferns of Point Pelee, Ont., and neighbouring districts. *Mem. Canada Geol. Survey* 54 (Biol. Ser. 2). 131 p. 1914.

General features of flora; annotated list of 623 vascular plants. Also issued in a French edition, 138 p., 1917.

— The flowering plants, ferns and fern allies growing without cultivation in Lambton County, Ontario. *Rpt. Mich. Acad. Sci.* 16: 132-200. 1914.

Physiography, habitats, etc.; annotated list of vascular plants.

Fletcher, James. Flora ottawaensis. 101 p. 23.5 cm. [Ottawa, 1888-99.]

Botanical collections, etc.; annotated list of phanerogams. Incomplete; breaks off in middle of treatment of *Scirpus pungens*. Pages 1-13 originally issued in *Trans. Ottawa Field Nat. Club*, v. 4 (*Ottawa Nat.*, v. 2), p. 28-32, 61-64, 77-80. 1888, later reprinted and with the remaining pages issued as *Suppl.* to the same journal, v. 4-6 (*Ottawa Nat.*, v. 2-4). Pages 62-69 are numbered 121-128.

Gibson, John, and Macoun, John. The plants of the eastern coast of Lake Huron, and their distribution through the northern and western portions of British North America. *Canad. Jour. Sci., Lit. and Hist.* n. s., 14: 635-657. 1875. (Reprinted 23 p. [1876?])

Tabular list of vascular plants of eastern shore of Lake Huron and southern and western shores of Georgian Bay, with indication of distribution in eastern Ontario, Lake Superior, and westward.—For ecological discussion of this region see their *Botany of the eastern coast of Lake Huron*, l. c. 467-478.

Holmes, E. M. Medicinal plants used by the Cree Indians, Hudson's Bay Territory. *Pharm. Jour. and Trans.* III, 15: 302-304. 1884. (Reprinted in *Amer. Jour. Pharm.* 56: 617-621. 1884.)

Annotated list.—See also Haydon, Walton. Medicinal plants used by the Cree Indians. *Therapeutic Gaz.* (Detroit) 8: 338-399. 1884. (Same material as in Holmes' paper.)—Also Strath, R. *Materia medica, pharmacy and therapeutics of the Cree Indians of the Hudson Bay territory.* *St. Paul Med. Jour.* 5: 735-746. 1903.

Hosie, R. C. Botanical investigations in Batchawana Bay region, Lake Superior . . . with A catalogue of the vascular plants, by T. M. C. Taylor . . . *Bul. Natl. Mus. Canada* 88, Biol. Ser. no. 23. v, 152 p. 34 fig. (incl. map). 1938.

Mainly ecological; includes annotated list of vascular plants. Batchawana Bay is about 20 miles north of Sault Ste. Marie, Ontario.

Kellerman, W. A. Flora of Hen and Chickens Islands, 1903. *Ohio Nat.* 4: 190-191. 1904.

Lists of vascular plants from these islands.—See also Schaffner, J. H. The flora of Little Chicken Island. l. c. 3: 331-332. 1902. (In Canadian waters at west end of Lake Erie.)

Kirkconnell, Watson. Botanical survey of South Victoria. A local check-list of plants found in the six southern townships of Victoria County, Ontario. 15 p. 21 cm. Lindsay, Ontario, 1926.

Topography, soils, climate; unannotated list of 620 higher fungi, bryophytes, and vascular plants.

Macoun, J. M. List of plants collected on the Rupert and Moose Rivers, along the shores of James' Bay, and on the islands in James' Bay, during the summers of 1885 and 1887 . . . In Low, A. P. Report on explorations in James' Bay and country east of Hudson Bay . . . *Ann. Rpt. Geol. and Nat. Hist. Survey Canada* n. s., 3 (2, Rpt. J): 63-74. 1888.

Tabular list of vascular plants.

Macoun, John. Catalogue . . . of the plants collected by Dr. Robert Bell along the Michipicoten River and in the southern part of the basin of Moose River. In Bell, Robert. Reports . . . on the geology of the basin of Moose River . . . *Rpt. Prog. Geol. and Nat. Hist. Survey Canada* 1880/82 (C): 17C-28C. 1883.

General features of the flora; tabular list of 320 vascular and cellular plants, with locality indicated.

Macoun, John, and Gibson, John. The rarer plants of the Province of Ontario. Trans. and Proc. Bot. Soc. Edinb. 12: 300-307. 1875.

Physiography, geology, etc.; list of rarer phanerogams, with synonymy, descriptions, and local range.

Saunders, William. List of plants collected chiefly in the immediate neighbourhood of London, C. W. Canad. Jour. Sci., Lit. and Hist. n. s., 8: 219-238. 1863. (Reprinted 20 p. [1863?].)

Annotated list of vascular plants, mosses, hepatics, and lichens.

Scott, William. The seed plants of Toronto and vicinity. In Faull, J. H. The natural history of the Toronto region. p. 100-140. Toronto, 1913.

Partly annotated list of 798 spermatophytes. An annotated list of pteridophytes, by Ivey, T. J., is in same volume (p. 141-149).

Spotton, H. B. List of plants collected in the vicinity of the town of Barrie. Canad. Jour. Sci., Lit. and Hist. n.s., 15: 46-50. 1876.

Unannotated list of vascular plants.

PRINCE EDWARD ISLAND

General

Hurst, Blythe. Flowering plants and ferns of Prince Edward Island. Trans. Roy. Canad. Inst. 19: 251-273. 1933.

Previous publications; unannotated list of 594 species and varieties of vascular plants.—See also Adams, John. Some additions to the flora of Prince Edward Island. Canad. Field-Nat. 51: 105-107. 1937.

QUEBEC

See also Franklin (Johansen); Mackenzie (Porsild); Ontario (Macoun, J. M., List of plants collected on the Rupert and Moose Rivers).

General

Adams, John. Medicinal plants of Quebec. Ann. Rpt. Quebec Soc. Protect. Plants 7: 50-54. 1915.

Briefly annotated list of 60 species, classified according to parts used.

Louis-Marie, pere. Flore-mannuel de la province de Québec. 319 p. illus. 21.5 cm. Montréal, 1931. (Contribution no. 23 Institut agricole d'Oka.)

Elementary morphology, etc.; briefly annotated elementary flora of vascular plants, in form of keys; vernacular names, glossary.

Local

Baum, H. E. A scanty flora. Plant World 4: 145-146. pl. 10. 1901.

List of 3 phanerogams collected in 1900 by Miss E. E. Leach on Bird Rock, at the northern tip of the Magdalen Islands, a famous rookery of gannets and other water birds.

Bowman, P. W. Notes on the flora of the Matemek River district, "North Shore," Quebec, Canada. Rhodora 34: 48-55. 1932.

Annotated list of vascular plants collected by the author in 1927.

Campbell, Robert. The flora of Montreal Island. Canad. Rec. Sci. 5: 208-234. 1892; 6: 397-405. 1895; 7: 146-151. 1896; 8: 11-24, 349-365. 1899-1901.

Annotated list of vascular plants, with four supplements (including the mosses). First contribution in vol. 8 has title: The Gramineae, Cyperaceae and Juncaceae of Montreal Island, by H. B. Cushing and Robert Campbell.—See also Emberson, F. C. The trees of Montreal Island. l. c. 9: 78-83. 1903. (Unannotated list.)

— Notes on the flora of Cap-à-l'Aigle. Canad. Rec. Sci. 4: 54-68. 1890.—Supplemental notes . . . 5: 38-40. 1892.—Additional notes . . . 8: 281-295. 1901.

Annotated list of vascular plants collected on the Murray and Loutre Rivers, Charlevoix County, Quebec.

Carrier, J. C. Le flore de l'île de Montréal, Canada. *Bul. Acad. Internatl. Géog. Bot.* 10: 166-173, 228-232, 281-283. 1901; 11: 22, 79-80, 188. 1902; 12: 55-56, 209-210. 1903; 13: 268-281. 1904; 20: 53-56. 1910.

Annotated list of 633 vascular plants.

D'Urban, W. S. M. Catalogue of plants collected in the counties of Argenteuil and Ottawa, in 1858. *Canad. Nat. and Geol.* 6: 120-137. 1861.

Annotated list of 362 vascular and cellular plants collected by the author. Argenteuil County is in Quebec, Ottawa in Ontario.

Lewis, H. F. An annotated list of vascular plants collected on the north shore of the Gulf of St. Lawrence, 1927-1930. *Canad. Field-Nat.* 45: 129-135, 174-179, 199-204, 225-228. 1931; 46: 12-18, 36-40, 64-66, 89-95. 1932.

Geology; list of anomalous occurrences of calcicolous plants; annotated list of 567 vascular plants (including minor forms). Covers essentially same area as St. John's "Botanical exploration of the north shore of the Gulf of St. Lawrence . . ." (1922).

Macoun, J. M. List of plants collected at Lake Mistassini, Rupert River and Rupert House . . . 1885. In Low, A. P. Report of the Mistassini expedition 1884-5. *Ann. Rpt. Geol. and Nat. Hist. Survey Canada n. s.*, 1 (Rpt. D): 36D-44D. 1885.

Tabular list of 306 vascular plants, with locality indicated.

Macoun, John. List and notes . . . of plants collected by Mr. Richardson on the Magdalen Islands. In Richardson, James. Report of a geological exploration of the Magdalen Islands. *Rpt. Prog. Geol. Survey Canada* 1879-80: 12G-15G. 1881.

Tabular list of 79 vascular plants; general features of flora.—See also Provancher, L. A. Liste des plantes . . . In his *Un naturaliste aux îles de la Madeleine*. *Naturaliste Canad.* 19: 246-247. 1890.

Marie-Victorin, frère. Études floristiques sur la région du lac Saint-Jean. *Contrib. Lab. Bot. Univ. Montreal* no. 4. 174 p. 28 fig. 1925.

Physiography, etc.; botanical explorations; author's itinerary, with critical notes on various species; list of cellular and vascular plants collected, with localities; plant associations, etc.

La flore du Témiscouata. Rapport sur une nouvelle exploration botanique de ce comté de la province de Québec. *Naturaliste Canad.* 41: 99-103, 115-119, 132-138, 148-153, 165-170, 181-188. illus. (incl. map). 1915; 42: 6-12, 18-29, 34-44, 51-59, 68-79, 106-111, 121-126, 136-143, 153-158, 168-175, 181-187. illus. (incl. map). 1915-16.

Bibliography, climate, geology, plant formations; annotated alphabetical lists of cellular and vascular plants.

Flore laurentienne. 917 p. 324 fig., maps (fig. A-K and fold. map). 29 cm. Montréal, 1935.

Botanical explorations, bibliography, physiography, geology, climate, phytogeography, evolution; annotated descriptive flora of 1,568 vascular plants, with keys, notes on biology; glossary. Covers the southern part of Quebec, north to about the level of the Saguenay River, Lake St. John, and the upper Ottawa River.

— and Meilleur, René. La florule de la Grosse-Île. *Naturaliste Canad.* 66: 107-122. 13 fig. 1939.

Topography, geology, etc.; list of 255 vascular plants; phytogeography. (In the St. Lawrence River, 40 miles downstream from Quebec.)

Northrop, J. I. Plant notes from Termiscouata [sic] County, Canada. *Bul. Torrey Club* 14: 230-238. 1887. (Reprinted as *Contrib. Herb. Columbia Col.* no. 3.—Also in Osborn, H. F. A naturalist in the Bahamas. 1910.)

General features of flora; systematic list of vascular plants collected by author mostly at Notre Dame du Lac, on west shore of Lake Témiscouata.—See also Northrop, J. I. and A. B. Plant notes from Tadousac and Temiscouata County, Canada. *Bul. Torrey Club* 17: 27-32. 1890.

Penhallow, D. P. Notes on the flora of Cacouna, P. Q. *Canad. Rec. Sci.* 4: 432-460. 1891.

Geology, general features of flora; annotated list of 212 vascular plants collected by the author in August 1891.

Notes on the flora of St. Helen's Island, Montreal. *Canad. Rec. Sci.* 4: 369-372. 1891.

General features of woody flora; alphabetical list of plants observed by author.

Polunin, Nicholas. Vascular plants from Diana Bay, Hudson Strait. *Canad. Field-Nat.* 51: 111-114. 1937.

List of 75 vascular plants. Diana Bay is on the south shore of Hudson Strait, 61° N. Lat., 70° W. Long.

Potter, David. Plants collected in the southern region of James Bay. *Rhodor.* 36: 274-284. 1 fig. (map). 1934.

Tabular list of vascular plants collected by the author in 1929, with indication of localities.

Rousseau, Jacques. *Études floristiques sur la région de Matapédia (Québec)*. *Bul. Mus. Natl. Canada* 66 (Sér. Biol. no. 17): 1-25. 1 fig. (map), 2 pl. 1931.

General features of flora; annotated list of vascular plants collected by the author in 1929; bibliography.

Saint-Cyr, D. N. List of plants gathered by D. N. Saint-Cyr, on the north shore, from St. Paul's Bay to Ouatchechou, and in the islands of Mingan, Anticosti and Grand Mecatina, during the summer of 1882 and the month of July 1885, during . . . his two trips to the lower St. Lawrence and the Gulf. *In* [Sessional papers, Prov. of Quebec] v. 20, pt. 3, no. 17B, p. 94-114. 1887.

List of vascular and cellular plants, with localities, identified by J. Macoun.

St. John, Harold. A botanical exploration of the north shore of the Gulf of St. Lawrence including an annotated list of the species of vascular plants. *Mem. Canada Dept. Mines* 126 (Biol. Ser. 4). iii, 130 p. 9 fig., pl., 2 maps. 1922.

Geology, physiography, botanical explorations, relations between chemical nature of soils and plant distribution, bibliographies; annotated list (614 species and varieties, of which 574 are native).

Schmitt, Joseph. *Monographie de l'île d'Anticosti (Golfe Saint-Laurent)*. vi, 370 p. plates, maps. 25.5 cm. Paris, 1904.

Annotated list of vascular plants (identifications revised by Macoun), p. 59-234.—For additions, see Adams, John. Some additions to the vascular flora of Anticosti Island. *Canad. Field-Nat.* 48: 63-65. 1934.

SASKATCHEWAN

See also Alberta (Raup, *Phytogeographic studies*); Mackenzie (Preble); Manitoba (Tyrrell); United States, Western (Rydborg, *Flora of the Rocky Mountains*, and *Flora of the prairies and plains*).

General

Fraser, W. P., and Russell, R. C. List of the flowering plants, ferns and fern allies of Saskatchewan. 46 p. 25.5 cm. Saskatoon, 1937.—Additions . . . 7 p. 28 cm. [Saskatoon,] 1938.

Annotated list of vascular plants, with localities for the rarer species. The list of Additions processed.

YUKON

See also Franklin (Ostenfeld); Mackenzie (Macoun and Holm; Persild; Stefánsson); Greenland (Hooker; Ostenfeld, *Flora arctica*); United States, Western (Kirkwood).

Local

Britton, N. L., and Rydborg, P. A. An enumeration of the flowering plants collected by R. S. Williams and by J. B. Tarleton. *Bul. N. Y. Bot. Gard.* 2: 149-187. 1901. (Contributions to the botany of the Yukon Territory, 4.)

List with localities and occasional annotations. The pteridophytes of the same collectors are listed by L. M. Underwood, l. c. 148-149. (Klondike region.)

Macoun, J. M. [List of plants collected during 1911 and 1912.] *In* Cairnes, D. D. The Yukon-Alaska international boundary, between Porcupine and Yukon Rivers. *Mem. Canada Geol. Survey* 67 (Geol. Ser. 49): 13-18. 1914.

List of vascular and cellular plants, preceded (p. 10-12) by notes on general features of flora by D. D. Cairnes.

Macoun, John. List of plants collected by Dr. G. M. Dawson in the Yukon district and adjacent northern portion of British Columbia in 1887. *In* Dawson, G. M. Report on an exploration in the Yukon district . . . Montreal, 1888.

p. 215B-228B. (With Ann. Rpt. Geol. and Nat. Hist. Survey Canada n. s., v. 3, pt. 1. 1889.)

List of 201 plants (198 vascular) with localities.

Macoun, John. List of plants collected by Mr. J. B. Tyrrell in the Klondike region in 1899. Ottawa Nat. 13: 209-218. 1899.

List of vascular and cellular plants.

CENTRAL AMERICA (INCLUDING MEXICO)

Hemsley, W. B. *Biologia centrali-americana*; or, contributions to the knowledge of the fauna and flora of Mexico and Central America . . . Botany. 4 v. 110 (i. e. 111) pl. (pt. col., and incl. map). 31 cm. London, 1879-88.

The fundamental modern work. Systematic list of vascular plants of Mexico (excluding Lower California) and Central America, with synonymy, citation of exsiccatae, and statement of extralimital range, based chiefly on the material in Kew Herbarium; phytogeography; sketch of botanical exploration, in form of an annotated list of collectors; summary and analysis of flora; bibliography; separate lists of plants from Cozumel Island collected in 1885 by G. F. Gaumer, and from Holbox, Muceres, Cozumel, and Ruatan Islands collected in 1886 by Gaumer. Includes 12,233 species, of which 11,626 are Phanerogamae; 8,193 of the latter are endemic.

BRITISH HONDURAS

General

Sprague, T. A., and Riley, L. A. M. Materials for a flora of British Honduras. Bul. Misc. Inform. Kew 1924: 1-20. 1924.

Systematic list with citation of exsiccatae, vernacular names, and occasional annotations; geography and physiography; plant formations; botanical explorations; short bibliography. Incomplete: Ranunculaceae-Elaeocarpaceae (Bentham and Hooker system). Total number of phanerogams estimated at 4,000; this enumeration not expected to contain over 800.

Standley, P. C., and Record, S. J. The forests and flora of British Honduras. Pub. Field Mus. Nat. Hist. 350, Bot. Ser. v. 12. 432 p. 16 pl. 1936.

Geography, geology, soils, climate, agriculture, forests, timbers, economic trees, bibliography, relationships of flora, botanical explorations; partly annotated list of 2,125 vascular plants, with vernacular names and uses, and keys and brief descriptions of woody plants.

COSTA RICA

For Cocos Island, see under Insular Floras.

General

Alfaro, Anastasio. Lista de las plantas encontradas hasta ahora en Costa Rica y en los territorios limítrofes, extractada de la "Biología centrali-americana." Anales Mus. Nac. Costa Rica 1: 1-101. 1888.

General features of flora; list of 3,386 vascular plants of Costa Rica and other Central American countries, of which 1,218 are definitely Costa Rican.

Durand, Théophile, and Pittier, H. F. *Primitiae florum costaricensis*. 3 v. 22 cm. Bruxelles, 1891-96; San José, 1898-1901.

List of species, with citation of exsiccatae and statement of extralimital range, prepared with the aid of many collaborators; sketch of plant geography; botanical exploration; gazetteer (1(1): 46-48). Durand's name appears as co-author only of vol. 1. Incomplete; includes (in vascular plants) Pteridophyta, Araceae, Iridaceae, Piperaceae, most Polypetalae, Euphorbiaceae, Gamopetalae except Solanaceae and Rubiaceae. The pagination of vol. 1 is involved. Vol. 1 (in 3 fasc.) 208, 191, 297 p. 1891-96; v. 2 (in 7 fasc.) 405 p. 1898-1900; v. 3 (fasc. 1). 69 p. 1901. Vol. 1 reprinted with changed pagination from Bul. Soc. Roy. Bot. Belg. 30: 7-97, 196-305. 1891; 31: 119-215. 1892; 32: 122-201. 1893; 35: 151-297. 1896; vol. 2 from Anales Inst. Fís.-Geog. Costa Rica 9: 77-223. 1898.

Pittier, H. F. *Ensayo sobre las plantas usuales de Costa Rica*. xi, 176 p. 31 pl. 25 cm. Washington, 1908.

Extensively annotated alphabetical list of vernacular (Spanish) names of wild and cultivated plants; cross-reference index of scientific names, separate index of vernacular names used by Indian tribes; bibliography of flora of Costa Rica; sketch of botanical exploration; plant distribution; discussion of economic plants, classified by uses; origin of vernacular names.

Polakowsky, Hellmuth. Die pflanzenwelt von Costa-Rica; ein beitrage zur kenntnis der pflanzen-geographie und der flora von Central-Amerika. Jahresber. Ver. Erdk. Dresden 16 (Wiss. th.): 25-124. map. 1879. (Spanish translation by Manuel Carazo Peralta, with annotations by H. Pittier, as "La flora de Costa Rica. Contribución al estudio de la fitogeografía centro-americana." Anales Inst. Fís.-Geog. Nac. Costa Rica 2: 177-201. 1890.)

Geography, plant geography (indicated on the map), systematic list of plants (cellular and vascular) known from Costa Rica, with localities and collectors' names.

Standley, P. C. Flora of Costa Rica. Pub. Field Mus. Nat. Hist. 391, 392, 420, 429. Bot. Ser. v. 18. 1616 p. map. 1937-38.

Physiography, plant zones, botanical explorations, bibliography; list of 6,085 spermatophytes with vernacular names, local and extralimital range, citation of type collection (if from Costa Rica) and often of other local collections; brief descriptions of genera and species in the case of the Dicotyledons. Orchidaceae by Oakes Ames. Index, p. 1573-1616, issued [1939]. A translation with slight changes has begun to appear as Museo Nacional de Costa Rica, Serie Botánica v. 1 (pt. 1, no. 1-3, p. 1-146. 1937-39).

GUATEMALA

See also Mexico (Bukarov).

General

Guérin, René, González, Darío, and García Salas M., Jorge. Catalogue des produits présentés par la république de Guatémala à l'Exposition universelle de Paris, 1900. 117 p. 23 cm. Guatémala, 1900.

Annotated, classified lists of plant products; general summary of geographic and other information about Guatemala.

Niederlein, Gustav. The Republic of Guatemala. 63 p. 23.5 cm. Philadelphia, 1898.

Includes (p. 19-30) chapter on vegetation with unannotated classified lists of principal economic plants, with vernacular and scientific names, also alphabetical lists of native names of woods and medicinal plants, without botanical equivalents.

Smith, J. D. Enumeratio plantarum guatemalensium necnon salvadorensium hondurensium nicaraguensium costaricensium. 8 v. plates. 23 cm. Oquawkae. 1889-1907. (Title varies, that of vol. 1 is: Enumeratio plantarum guatemalensium imprimis a H. de Tuerckheim collectarum; v. 2-3: Enumeratio plantarum guatemalensium.)

Each volume (1-7) consists of copies of the data of specimens distributed by J. D. Smith from Guatemala (and in the later volumes other Central American republics) during successive periods of years, arranged in systematic order. Vol. 8 contains an alphabetical list of all the species so distributed with references to their enumeration in earlier volumes. Lists 3,736 species, of which 1,189 are not given by Hemsley. Vol. 1-5 include also his Undescribed plants from Guatemala I-XXI, reprinted from Bot. Gaz. v. 12-16, 18-21, 23-25, 26.

[Tejada, R. ?] Catálogo de plantas reputadas medicinales en la República de Guatemala. 71 p. 26 cm. Guatemala, [1913?]. (At head of title: Fiestas de Minerva de 1913. Exposición nacional.)

Alphabetical list of vernacular names (and botanical names when known), with localities and brief notes on medicinal uses. The "segunda edición" (55 p., Guatemala, 1929) seems to be identical with the first, except for the omission of the short preface.

Local

Blake, S. F. Native names and uses of some plants of eastern Guatemala and Honduras. Contrib. U. S. Natl. Herb. 24: 87-100. pl. 29-33. 1922.

Briefly annotated list of vernacular and botanical names with local uses.

Guatemala. Ministerio de agricultura. Flora guatemalteca. Herbario nacional. Plantas clasificadas científicamente por el Prof. Paul C. Standley . . . y revisadas por el Prof. Ulises Rojas. v. 1 (19 p.). 26 cm. Guatemala, 1929.

Alphabetical list of 583 vernacular names with botanical equivalents.

Johnston, J. R. Lista de plantas de Guatemala en el herbario de la Escuela nacional de agricultura, Chimaltenango. Revista Agr. (Guatemala) 15: 203-206, 249-260, 314-321. 1938; 16: 129-133. 1939. (Reprinted with title: Catálogo de plantas de Guatemala. 52 p.)

Mostly unannotated list of plants, collected principally by the author, with some vernacular names.

Lundell, C. L. Plants probably utilized by the Old Empire Maya of Petén and adjacent lowlands. Papers Mich. Acad. Sci. 24: 37-56. 1939.

Topography, climate, anciently cultivated trees; annotated list of useful plants, grouped by uses; bibliography.

—— The vegetation of Petén. With an appendix: Studies of Mexican and Central American plants I. ix, 244 p. 39 pl. (incl. map). 29.5 cm. Washington, D. C., 1937. (Carnegie Institution of Washington Publication no. 478.)

Botanical explorations, geology, climate, soils, history of vegetation, ecology, etc.; annotated lists of vascular plants known from northern Petén (785 species), central Petén (835 species), and southern Petén (191 species), with vernacular names.

Recinos, Adrián. Monografía del Departamento de Huehuetenango, República de Guatemala. xiv, 269 p. illus. (incl. maps). 25 cm. Guatemala, 1913.

Includes chapter (p. 50-86) giving general features of topography, life zones, and annotated list of wild and cultivated economic plants, classified by uses, with vernacular names.

Record, S. J., and Kuylen, Henry. Trees of the lower Río Motagua valley, Guatemala. Trop. Woods, Yale Univ. School Forestry 7: 10-29. 1926.

General features of tree flora; annotated systematic list of trees, with vernacular names (indexed).

HONDURAS

See also Central America (Hemsley, for list including the plants of Ruatan Island); Guatemala (Smith; Blake).

General

Record, S. J. Trees of Honduras. Trop. Woods, Yale Univ. School Forestry 10: 10-47. 1927.

Annotated list, with vernacular names and uses; index of vernacular names.— See also Standley, P. C. A second list of the trees of Honduras. l. c. 21: 9-41. 1930.—Additions . . . l. c. 37: 27-39. 1934.

Local

Conzemius, Édouard. Economic plants of the Bay Islands (Honduras). Gard. Chron. III, 81: 50-51, 69-70, 81, 117-118, 133, 180-181, 217, 270, 305, 413-414. fig. 42. 1927.

Geography, physiography, climate, natives, etc.; annotated list of wild and cultivated useful plants.

Popenoe, Wilson. The useful plants of Copan. Amer. Anthropol. n. s., 21: 125-138. 1919.

Climate, soil, etc.; annotated list of useful plants, wild and cultivated, classified by uses, with vernacular names. Refers to the valley of the Copán River in western Honduras.

Standley, P. C. Flora of the Lancetilla Valley, Honduras. Pub. Field Mus. Nat. Hist. 283, Bot. Ser. v. 10. 418 p. 68 pl. 1931.

Geology, climate, general features of flora, useful plants, botanical explorations; list of cellular plants; briefly descriptive flora of vascular plants, with vernacular names and uses. (Near Tela, Department of Atlántida.)

—— The woody plants of Signatepeque, Honduras. Jour. Arnold Arboretum 11: 15-46. 1930.

General features of flora; annotated list of woody phanerogams collected by the author, with vernacular names. (Department of Comayagua.)

Yuncker, T. G. A contribution to the flora of Honduras. Pub. Field Mus. Nat. Hist. 405, Bot. Ser. 17: 285-407. 18 pl. 1938.

Botanical explorations, general features of flora around Siguatepeque; annotated list of cellular and vascular plants collected by the author in 1934 and 1936 near Siguatepeque (Department of Comayagua), Potrerillas and Lake Yojoa (Department Cortés), including also species from the Lancetilla-Tela region not recorded by Standley.

MEXICO

See also Central America (Hemsley, for special lists of the plants of Cozumel, Holbox, and Muger Islands, Yucatan).

General

Alcocer, G. V. Catálogo de los frutos comestibles mexicanos. Anales Mus. Nat. México II, 2: 413-488. 1905.

Annotated systematic list of wild and cultivated fruits, with vernacular names. Apparently never finished.

Bukasov, S. M. Vozdelyvaemye rasteniâ Meksiki, Gratemaly i Kolumbii (The cultivated plants of Mexico, Guatemala, and Colombia). Prilozh. Trudy Prikl. Bot., Gen. i Selekt. (Suppl. Bul. Appl. Bot., Gen. and Plant-Breed. Leningr.) no. 47. 553, [16.] xxxvii p. 365 fig. (incl. maps), 2 col. pl., fold. tab., fold. map. 1930.

Geography, climate, centers of origin, general features of agricultural regions, native and foreign cultivated plants. In Russian, with fairly full English summary. Supplementary articles on various plants by several authors. Work based on the expedition of the Institute of Applied Botany in 1925-26.

Conzatti, Cassiano, and Smith, L. C. Flora sinóptica mexicana. pt. 2-3 (23, 225 p.). port., 9 tab. 22.5 cm. Oaxaca, 1895-97. (2d ed., pt. 3. 335 p. tab. México, 1910.)

Descriptive flora, with keys; in most genera only a part of the species are described, the others merely listed with locality; very few vernacular names. Incomplete; includes only Corolliflorae (Asclepiadales—Bignoniales), 2,505 species and 75 varieties. Pt. 1 never published.

Flores, Leopoldo. Manuel terapéutico de plantas mexicanas. 102 p. 21.5 cm. México, 1909.

Annotated list of medicinal plants, arranged alphabetically by vernacular names; supplementary list of same classified by uses.

Léon, Nicolás. Biblioteca botánico-mexicana. Catálogo bibliográfico, biográfico y crítico de autores y escritos referentes á vegetales de México y sus aplicaciones, desde la conquista hasta el presente. 372 p. 23 cm. México, 1895.

Alphabetical list of 805 authors (with additions) and their works; botanical explorations, collectors.

Martínez, Maximino. Catálogo de nombres vulgares y científicos de plantas mexicanas. 551 p. 19 cm. México, 1937.

Alphabetical list of over 13,000 vernacular names, with indication of habit, color of flower, etc., botanical name and locality; includes cultivated plants; bibliography; no index of botanical names. Replaces his Catálogo alfabético de nombres vulgares y científicos de plantas que existen en México. 1923-[29?], which in turn replaced Ramírez and Alcocer's Sinonimia vulgar y científica de las plantas mexicanas. 1902.

Las plantas medicinales de México. 644 p. illus., col. plates. 20 cm. México, 1933.

Annotated lists of (1) identified plants whose properties have been studied, (2) identified plants with imperfectly known properties, (3) unidentified plants, (4) plants extracted from the "Libro del Judio" published at Mérida, Yucatán, in 1834. Vernacular and botanical names, localities, uses, chemistry, properties, references, etc.

Las plantas mas utiles que existen en la República mexicana. 381 p. illus. 23 cm. México, 1928.

List of about 100 more important species, arranged alphabetically by vernacular names, with uses and bibliography under each species; indices.

Ramírez, José. La vegetación de México; recopilación y análisis de las principales clasificaciones propuestas. 271 p. maps. 23 cm. México, 1899.

Discussion of phytogeographical regions of Mexico proposed by various writers, including the author. Listed here on account of its tables (p. 148-248) of Mexican localities with altitudes, arranged alphabetically by States.

Rose, J. N. Notes on useful plants of Mexico. Contrib. U. S. Natl. Herb. 5: 209-259. pl. 28-64. 1899.

Annotated list of economic plants, classified by uses.

Standley, P. C. Trees and shrubs of Mexico. Contrib. U. S. Natl. Herb. v. 23. 1721 p. 1920-26.

Complete flora of the native woody vascular plants (about 5,700 species) with keys, brief descriptions, synonymy, statement of local and extralimital range, extensive account of vernacular names, and local uses; brief history of early explorations. Treatment of several families contributed by specialists.

Suc, Louis. Les plantes médicinales du Mexique. 236 p. 24 cm. Toulouse, 1912. (Université de Toulouse. Faculté mixte de médecine et de pharmacie. 1911-12. no. 15.)

Brief sketch of botanical explorations, life zones, etc.; systematic list of medicinal plants, with vernacular names, uses, composition, etc., with footnote references; bibliography of 20 titles.

Urbina, Manuel. Catálogo de plantas mexicanas (fanerógamas). vi, 487 p. 23.5 cm. México, 1897.

Systematic list, with synonymy, citation of exsiccatae with localities, and vernacular names, based on the material in the Museo Nacional of Mexico. Includes only about 3,000 species, and so is very far from representing the total flora.

Local

Batalla, M. A., and Ramírez Cantú, Débora. Contribución al estudio florístico del Valle de México. Estudio cualitativo de las sinecias que habitan los Cerros del Norte del Valle de México. Anales Inst. Biol. México 10: 227-267. 20 fig. 1939.

Geology, geography, climate, ecology; list of 220 vascular plants from the Sierra de Guadalupe, with localities; bibliography. (State of Mexico and (?) Federal District.)

Brandeggee, T. S. A collection of plants from Baja California, 1889. Proc. Calif. Acad. Sci. II, 2: 117-216. pl. 2-11, map. 1889.

Annotated list of vascular plants collected by the author in Baja California (from Margarita Island northward) in 1889; brief sketch of physiography and useful plants.

Flora of the Cape region of Baja California. Proc. Calif. Acad. Sci. II, 3: 108-182, 218-227. 1891-92.—Additions . . . Zoe 4: 398-408. pl. 31. 1894.

List of 679 species (of which 674 are vascular plants), annotated as to locality, from region "south of a line drawn along the northern base of the mountains from Todos Santos to La Paz"; brief account of physiography. The additions bring the total number of vascular plants to 795.

Bravo Hollis, Helia. Observaciones florísticas y geobotánicas en el valle de Mezquital, Hidalgo. Anales Inst. Biol. México 8: 3-82 (incl. 12 pl.). 9 fold. tab. 1937.

Mainly ecological; includes list (p. 57-82) of cellular and vascular plants, with localities; bibliography.

Cuevas, Benjamin. Plantas medicinales de Yucatán y guía médica práctica doméstica. 278 p. 37 col. pl., port. 23 cm. Mérida, Yucatán, 1913.

Alphabetical list of vernacular names (with botanical equivalents when known), brief descriptions, medicinal and other uses. The second part of the work (p. 129-278) is a popular medical guide, with separate title page dated 1908. The colored figures (3 on each plate) are tiny and unsatisfactory.

Eastwood, Alice. List of plants recorded from Cedros Island, Mexico. Proc. Calif. Acad. Sci. IV, 18: 420-441. 1929.

Botanical explorations, list of species first described from the island, etc.; annotated list of 176 vascular plants.

Eastwood, Alice. A list of plants recorded from the Tres Marias Islands, Mexico. *Proc. Calif. Acad. Sci.* IV, 18: 442-468. 1929.

Botanical explorations, list of species first described from the island; list of 324 vascular plants with citation of exsiccatae.

— List of the plants recorded from Guadalupe Island, Mexico. *Proc. Calif. Acad. Sci.* IV, 18: 394-420. pl. 33-34. 1929.

Botanical explorations, list of species originally described from the island, etc.; annotated list of 161 vascular plants.

Ferris, R. S. Preliminary report on the flora of the Tres Marias Islands. *Contrib. Dudley Herb. Stanford Univ.* 1: 63-81. 4 pl. 1927.

General features of flora, etc.; annotated list of vascular plants collected by the author in 1925, composed chiefly of those not hitherto recorded. Total flora said to consist of about 285 species.

Goldman, E. A. Plant records of an expedition to Lower California. *Contrib. U. S. Natl. Herb.* 16: 309-371. pl. 104-133, map. 1916.

Annotated list of vascular plants (and 1 lichen) collected by E. W. Nelson and E. A. Goldman in 1905-06 on a trip covering the whole extent of the peninsula, with vernacular names and notes on uses.

Greene, E. L. The botany of Cedros Island. *Pittonia* 1: 194-208. 1888.—A supplementary list of Cedros Island plants. l. c. 1: 266-269. 1889.

Geography, etc.; annotated list of 91 vascular plants.

— Botany of the Coronados Islands. *West Amer. Sci.* 1: 69-71. 1885.

Topography, etc.; mostly unannotated list of nearly 70 vascular plants. (Off northwesternmost Lower California, 32°22' N. Lat., 117°30' W. Long.)

— A catalogue of the flowering plants and ferns of Guadalupe Island. *Bul. Calif. Acad. Sci.* 1: 220-228. 1885.

Adds 13 species to Watson's list; notes on other species. Preceded (p. 214-220) by "Notes on Guadalupe Island"; general features of flora, climate, etc.

— The vegetation of the San Benito Islands. *Pittonia* 1: 261-266. 1889.

General features of flora; list of 24 vascular plants, of which 5 are endemic.

Hellprin, Angelo. The temperate and alpine floras of the giant volcanoes of Mexico. (Being a report from the Committee on the Michaux legacy.) *Proc. Amer. Phil. Soc.* 30: 4-22. 1892.

Includes list of species reaching 10,000 feet or higher on Orizaba, Popocatepetl, Ixtaccihuatl, and Nevada de Toluca, with discussion.

Johnston, I. M. Expedition of the California Academy of Sciences to the Gulf of California in 1921. The botany (the vascular plants). *Proc. Calif. Acad. Sci.* IV, 12: 951-1218. map. 1924.

Annotated list of 456 vascular plants (and 20 fungi and lichens) collected in Lower California, Sonora, and islands in the Gulf of California; physiography, phytogeography, and history of botanical exploration.

— The flora of the Revillagigedo Islands. *Proc. Calif. Acad. Sci.* IV, 20: 9-104. 1931.

Botanical explorations; physiography, etc., of each island with tabular list of species recorded and remarks on distribution, origin of flora; annotated list of 120 vascular plants.

Loesener, Theodor. Ueber Maya-namen und nutzanwendung yucatekischer pflanzen. In *Festschrift Eduard Seler* . . . herausgegeben von W. Lehmann. p. 321-343. Stuttgart, 1922.

Bibliography; systematic list of 348 plants, with Maya names (and translations) and notes on uses. (Yucatan.)

Millspaugh, C. F. *Plantae yucatanae (regionis antillanae)*. Plants of the insular, coastal and plain regions of the peninsula of Yucatan, Mexico. *Pub. Field Columbian Mus.* 69, 92, *Bot. Ser.* 3: 1-84, 85-151. illus., plates, map. 1903-04.

Descriptive flora, with keys based primarily on fruiting characters; citation of exsiccatae; vernacular names, uses; text figure of each species (usually only fruiting details). Incomplete: fasc. 1, Polypodiaceae and Schizaeaceae (by Millspaugh), Gramineae and Cyperaceae (by Millspaugh and Agnes Chase); fasc. 2, Compositae (Millspaugh and Chase). Never completed.

— Vegetation of Alacran Reef. *Pub. Field Mus. Nat. Hist.* 187, *Bot. Ser.* 2: 421-431. 1 fig., 2 pl., map. 1916.

Topography, etc.; annotated list of 18 angiosperms. (In Campeche Bank, 75 miles north of Yucatan, about 22°33' N. Lat., 89°41' W. Long.)

Ortega, J. G. Informe sobre las plantas de las Islas Marías. Bol. Pro-Cult. Region. S. C. L. Mazatlán, Sinaloa 2 (2) : 5-9. 1936.

Unannotated list of vascular plants of Tres Marias Islands, with vernacular names.

Ramírez Laguna, Antonio. Nota acerca del aprovechamiento de algunas plantas de importancia económica en la región del valle de Mezquital, Hgo. Anales Inst. Biol. México 8: 83-115. 10 fig. 1937.

Annotated list, alphabetically arranged by botanical names, with vernacular names and uses.

Reiche, K. F. Flora excursoria en el valle central de México. Claves analíticas y descripciones de las familias y géneros fanerógamicos. 303 p. 22 cm. México, 1926.

Keys to and descriptions of families and genera, with mention of more important species; vernacular names. (State of Mexico.)

——— La vegetación en los alrededores de la capital de México. 143 p. 27 fig., map. 24 cm. México, 1914.

Bibliography, physiography, plant formations, etc.; unannotated list of vascular plants, mosses, lichens, and fungi. Reprinted with some changes in Bot. Jahrb. Engler 58 (Beibl. 129) : 1-116. 1922.

Reko, B. P. De los nombres botánicos aztecas (tomado de la obra inédita "Sinonimia vulgar y científica de la flora oaxaqueña"). México Antiguo 1: 113-157. 1919.

Etymology, botanical terminology; annotated list of Aztec names, with botanical identifications.

Riley, L. A. M. Contribution to the flora of Sinaloa. Bul. Misc. Inform. Kew 1923: 103-115, 163-175, 333-346, 388-401. 1923; 1924: 206-222. 1924.

Systematic list, with citation of exsiccatae, vernacular names, and occasional critical notations; brief sketch of geography and collectors, particularly Seemann. Incomplete (5 parts); includes only Polypetalae (Bentham and Hooker system).

Rose, J. N. List of plants collected by Dr. Edward Palmer in 1890 on Carmen Island. Contrib. U. S. Natl. Herb. 1: 129-134. pl. 12-14. 1892.

Physiography, etc.; annotated list of 68 phanerogams.

——— Plants of the Tres Marias Islands. North Amer. Fauna 14: 77-91. 2 fig. 1899.

Annotated list of vascular plants collected by E. W. Nelson in 1897.

Roys, R. L. The ethno-botany of the Maya. Pub. Middle Amer. Res. Ser. Tulane Univ. Louisiana no. 2. xxiv, 359 p. 1931.

Classified list of diseases, with remedies; annotated list of Maya plant names, with botanical identification and medicinal uses; alphabetical list of botanical names, with vernacular equivalents; annotated list of Maya zoological names; climate and food supply; bibliography. Refers to Yucatan only.

Sprague, T. A. Sessé and Mocifio's Plantae Novae Hispaniae and Flora Mexicana. Bul. Misc. Inform. Kew 1926: 417-425. 1926.

History of these works; gazetteer of localities mentioned in them; bibliography.

Standley, P. C. Flora of Yucatan. Pub. Field Mus. Nat. Hist. 279, Bot. Ser. 3: 157-492. 1930.

Geology, climate, general features of vegetation, botanical explorations, Maya vernacular names, bibliography; annotated list of 1,263 plants (nearly all vascular), with vernacular names (Maya, Spanish, and English), uses, and very brief descriptions. The area covered includes Campeche, Yucatan, and the territory of Quintana Roo. The information on useful plants in this work has been extracted and classified in a paper by R. M. Harper, Useful plants of Yucatan, Bul. Torrey Club 59: 279-288. 1932.

Vasey, George, and Rose, J. N. Plants collected in 1889 at Socorro and Clarion Islands, Pacific Ocean. Proc. U. S. Natl. Mus. 13: 145-149. 1890. (Scientific results of explorations by the U. S. Fish Commission steamer *Albatross*, no. 16.)

List of 26 species (18 from Socorro, 12 from Clarion Island).

Watson, Sereno. List of plants collected by Dr. Edward Palmer in southwestern Chihuahua, Mexico, in 1885. (His Contributions to American botany [no. 13, pt. 1].) Proc. Amer. Acad. Arts and Sci. 21: 414-445. 1886.

Localities, etc.; systematic list of vascular plants, with localities, collector's numbers, and frequent annotations.

Watson, Sereno. On the flora of Guadalupe Island, Lower California. [and] List of a collection of plants from Guadalupe Island, made by Dr. Edward Palmer, with his notes upon them. *Proc. Amer. Acad. Arts and Sci.* 11: 105-112, 112-121. 1876.

Climate, general features of flora, etc.; annotated list of 119 plants (of which 105 are vascular).

Williams, Llewelyn. *Arboles y arbustos del Istmo de Tehuantepec, México.* Lilloa 4: 137-171. 7 fig. 1939.

Plant formations; list of woody and herbaceous plants, alphabeted by vernacular names, with botanical equivalents. (Vera Cruz and Oaxaca.)

NICARAGUA

See also Guatemala (Smith).

General

Lévy, Pablo. *Notas geográficas y económicas sobre la República de Nicaragua; su historia, topografía, clima, producciones y riquezas, población y costumbres, gobierno, agricultura, industria, comercio, etc.* . . . xvi, 627 p. fold. map. 26.5 cm. Paris, 1873.

Contains sections (p. 166-191) on woods and other useful plants, classified by uses, with vernacular names.

Ramírez Goyena, Miguel. *Flora nicaragüense.* 2 v. (1064 p.). 29 cm. [Managua,] 1909-11.

Descriptive flora of vascular plants (plus *Chara*); vernacular names (separate index); detailed account of medicinal plants. Not of value as a flora.

Local

Record, S. J. Trees and shrubs collected by F. C. Englesing in northeastern Nicaragua. *Trop. Woods, Yale Univ. School Forestry* 17: 18-38. 1929.

Annotated list, with vernacular names (indexed).

PANAMA

For Cocos Island, see Insular Floras.

General

Seemann, Berthold. *Flora of the Isthmus of Panama.* In his *The botany of the voyage of H. M. S. Herald.* p. 57-254. pl. 12-50 (incl. map). London, 1852-54.

Annotated list of 1,204 species (of which 1,164 are vascular plants); botanical exploration, physiography, economic plants, agriculture. (Includes not only the present country of Panama but also the former Territory of Darien; i. e., the coastal region of Colombia from the Isthmus of Panama south to Río San Juan, about 4°10' N. Lat.)

Local

Johansen, Holger. A handbook of the principal trees and shrubs of the Ancon and Balboa districts, Panama Canal Zone. 97 p. (incl. front., 32 pl., map). 25.5 cm. [Washington,] 1925.

Annotated list including both wild and cultivated species, with location of the living specimens.

Record, S. J. Contributions to the arborescent flora of western Panama. *Trop. Woods, Yale Univ. School Forestry* 16: 9-35. 1928.

Systematic list of trees and a few herbaceous plants collected by G. P. Cooper in 1926-28, with vernacular names (indexed).

Standley, P. C. The flora of Barro Colorado Island, Panama. *Contrib. Arnold Arboretum* no. 5. 178 p. 21 pl., map. 1933.

Physiography, botanical explorations, partly annotated lists of cellular and vascular plants, with brief diagnostic characters of many of the species; bibliography. Replaces the author's work of the same title published in *Smithsonian Misc. Coll.* v. 78, no. 8. 1927, and its two supplements (*Pub. Field Mus. Nat. Hist.* 258, Bot. Ser. 4: 143-158. 1929; *Jour. Arnold Arboretum* 11: 119-129. 1930); first supplement by L. A. Kenoyer and Standley.

Standley, P. C. Flora of the Panama Canal Zone. Contrib. U. S. Natl. Herb. v. 27. x, 416 p. 7 fig., 67 pl. 1928.

A condensed flora of the spermatophytes, with keys, vernacular names and uses, and often brief descriptions. The introduction discusses the physiography, composition of the flora, agriculture, and history of botanical exploration.

SALVADOR

General

Guzmán, D. J. Especies utiles de la flora salvadoreña médico-industrial con aplicación a la medicina, farmacia, agricultura, artes, industrias y comercio. 2 v. in 1 (678 p.). 24.5 cm. San Salvador, 1924-26.

Annotated list, with vernacular names, brief descriptions, and uses (largely medicinal); appendix on timbers, etc.

Salvador. Ministerio de instrucción pública. Flora salvadoreña. 5 v. 500 pl. (part col.). 18.5 x 28.5 cm. [San Salvador] 1926-[32?].

Photographs, with brief descriptive text, of both wild and cultivated plants, especially those which are useful or ornamental; vernacular names. The plates represent specimens in the herbarium of Félix Choussy.

Standley, P. C., and Calderón, Salvador. Lista preliminar de las plantas de El Salvador. 274 p. 23.5 cm. San Salvador, [1925].—2. suplemento. p. 275-302. 12 pl. San Salvador, 1927.

Annotated list of about 2,070 native and cultivated species, including non-vascular plants; vernacular names. The first supplement is a part of the original list (p. 273-274).

GREENLAND

See also Canada (Adams); United States, general (Gray; Watson).

General

Holm, Theodore. Contributions to the morphology, synonymy, and geographical distribution of Arctic plants. Report of the Canadian Arctic expedition 1913-18. v. 5, Botany, pt. B. 139 p. illus. 1922.

Morphological and systematic studies, geographical distribution, composition of Arctic flora; tables of distribution (including Old World), with discussion; extensive bibliography of Arctic floras. The geographical table of species covers Greenland, Arctic American archipelago, Spitzbergen, Nova Zembla, and Arctic Scandinavia, Russia, and Siberia, and includes also records of the same species from other northern or elevated regions.

Hooker, J. D. Outlines of the distribution of Arctic plants. Trans. Linn. Soc. Bot. 23: 251-348. pl. 32 (map). 1861.

Plant geography; table showing world-wide distribution of Arctic vascular plants (805 species); critical systematic notes. The table shows general distribution of all vascular plants known from north of 66°30' N. Lat. in both hemispheres.

Lange, Johan, and others. Conspectus florae groenlandicae. Meddel. om Grønland. v. 3 in 3 pts. (L. 1,016 p.). 57 fig., 2 pl., 3 maps. 1880-94.

Pt. 1: Botanical explorations; bibliography; notes on Greenland (by A. Kornerup); annotated list of 378 vascular plants; index of vernacular names, with supplementary list. A French translation of the Danish introductory matter is given (p. 215-229). [Pt. 1 is practically a reprint of the first issue of 1880 (Meddel. om Grønland v. 3. xxxvi, 231 p. 3 maps).] Pt. 2: Additional collections, chronological table of collections made in Greenland, 1813-1886; additions and corrections to annotated list, bringing total to 395 species; treatment of mosses (by Lange and C. Jensen). Pt. 3: Cellular cryptogams (by various authors); list of vascular plants, reducing total number to 374 (by L. K. Rosenvinge); index of vascular plants; gazetteer of localities mentioned. Rosenvinge's list, "Andet tillæg til Grønlands fanerogamer og karsporeplanter," Meddel. om Grønland 3: 645-749. 1892, is often cited separately.

Lauridsen, Peter. Bibliographia groenlandica, eller fortegnelse paa vaerker, afhandlinger og danske manuskripter, der handle om Grønland indtil aaret 1880 incl. Meddel. om Grønland 13. 247 p. 1890.

Includes (p. 83-93) unannotated list of 134 botanical titles, arranged alphabetically by author.

Ostenfeld, C. H., ed. *Flora arctica* containing descriptions of the flowering plants and ferns, found in the Arctic regions, with their distribution in these countries. Pt. I. Pteridophyta, Gymnospermae, and Monocotyledones. xi, 134 p. 95 fig., map (in text). Copenhagen, 1902.

Bibliography; descriptive flora with keys, references, local and general range (212 species). The area covered includes all Greenland and Baffin Land, the extreme northern part of Canada, Alaska, Siberia and Russia, Nova Zembla, etc. Pt. 1 by O. Gelert and C. H. Ostenfeld. No more published.

— The flora of Greenland and its origin. *Biol. Meddel. K. Danske Videnskab. Selsk.* v. 6, no. 3. 71 p. illus. (maps). 1926.

General features of flora; plants brought by Norsemen; phytogeography; endemic species (8); tabular list of 390 vascular plants, with distribution indicated by districts; bibliography.

Porsild, M. P. Alien plants and apophytes of Greenland. *Meddel. om Grønland* 92: 1-85. 2 maps. 1932.

Annotated list of 91 introduced angiosperms, with extralimital range; apophytes (annotated list of 63 species), hemerophytes, discussion of plant introduction by Norsemen, bibliography.

Local

Abromeit, Johannes. *Samenpflanzen (phanerogamen) aus dem Umanaks- und Ritenbenks-distrikt.* In *Botanische ergebnisse der von der Gesellschaft für erdkunde zu Berlin unter leitung Dr. v. Drygalski's ausgesandten Grönlandsexpedition nach Dr. Vanhöffen's sammlungen* bearbeitet. B. 105 p. pl. 2-5 (3 col.). 31 cm. Stuttgart, 1899. (*Bibliotheca botanica* h. 42, [fig. 2].)

Annotated list of 142 phanerogams from northwest Greenland collected in 1891-93. The vascular cryptogams are listed by the same author in pt. A, p. 69-75, 1897, of the same work.

Böcher, T. W. Biological distributional types in the flora of Greenland. A study on the flora and plant-geography of south Greenland and Eastgreenland between Cape Farewell and Scoresby Sound. *Meddel. om Grønland* v. 106, no. 2. 339 p. 147 fig. (incl. maps), 2 pl. 1938. (6. og 7. Thule-expedition til Sydøstgrønland 1931-33.)

Table of collectors with references to publications, climate, geology, topography, tabular list of vascular plants collected; annotated list of 391 vascular plants known from the region, with references; biological types, phytogeography, bibliography. The numerous maps of ranges show the known stations for all of Greenland.

— Phytogeographical studies of the Greenland flora based upon investigations of the coast between Scoresby Sound and Angmagssalik. *Meddel. om Grønland* v. 104, no. 3. 56 p. 13 fig. (incl. maps), pl. (map). 1933.

Includes tabular list of about 150 vascular plants known from the region indicated (65°55'-69°55' N. Lat.), with indication of range; bibliography.

Devold, J., and Scholander, P. F. Flowering plants and ferns of southeast Greenland. *Skrift. Svalbard og Ishavet* (Oslo) no. 56. 209 p. (incl. 46 fig., 7 pl. (maps)), fold. map. 1933.

Botanical explorations, list of localities; annotated list of 233 vascular plants; plant formations; bibliography. Covers area in southeast Greenland "south of Angmagssalik, and in Kangerdlugssuak lat. 68°15' N."

Dusén, Per. Zur kenntnis der gefässpflanzen Ostgrönlands. *Bihang K. Svenska Vetensk.-Akad. Handl.* v. 27, afd. 3, no. 3. 70 p. 2 fig., 6 pl. (incl. map). 1901.

Botanical explorations, localities, plant formations, with footnote references; annotated list of vascular plants collected by the Swedish expeditions of 1899 and 1900. (East coast, 70°-75° N. Lat.)

Gelting, Paul. Studies on the vascular plants of East Greenland between Franz Joseph Fjord and Dove Bay (Lat. 73°15'-76°20' N.). *Meddel. om Grønland* v. 101, no. 2. 340 p. 47 fig. (incl. maps), 4 pl. 1934.

Botanical explorations, descriptive list of localities; annotated list of 163 vascular plants known from region, with localities and collectors; climate, phytogeography, life forms, etc.; bibliography.

Hartz, Nikolaj. *Fanerogamer og karkryptogamer fra nordøst-Grønland*, c. 75°-70' N. Br., og Angmagsalik, c. 65°40' N. Br. Meddel. om Grønland 18: 315-393. 1 fig. 1895.

Botanical collections; annotated list of 165 vascular plants from northeast Greenland with localities; table showing local distribution of 248 vascular plants in northeast and northwest Greenland; table showing local distribution of the 165 vascular plants listed above; phytogeography; list of 64 vascular plants collected by E. Bay at Angmagsalik.

Kruuse, Christian. List of the phanerogams and vascular cryptogams found in the Angmagsalik District on the east coast of Greenland between 65°30' and 66°20' lat. N. Meddel. om Grønland 30: 209-287. 1906.

Localities, botanical explorations, bibliography; annotated list of 183 vascular plants.

——— List of phanerogams and vascular cryptogams found on the coast 75°-66°20' lat. N. of East Greenland. Meddel. om Grønland 30: 143-208. 1905.

Localities; annotated list of 178 vascular plants.

Lundager, Andreas. Some notes concerning the vegetation of Germania Land, north-east Greenland. Meddel. om Grønland 43: 347-414. 18 fig., pl. 17 (map). 1917 (1912).

Mainly ecological; includes tabular list of 48 phanerogams.

Ostenfeld, C. H. Flowering plants and ferns from north-western Greenland collected during the Jubilee expedition 1920-22 and some remarks on the phytogeography of north-Greenland. Meddel. om Grønland 68: 1-42. 1 fig. (map). 1925. (Reprinted as Arb. Bot. Have København nr. 105. 1925.)

Botanical collections, localities; annotated list of 97 vascular plants; tabular list showing distribution of 125 vascular plants found in Greenland north of 76° N. Lat., with discussion; bibliography.

——— Flowering plants and ferns from Wolstenholme Sound, N. W. Greenland. Meddel. om Grønland 64: 189-206. 1927(1923). (Den II. Thule ekspedition til Grønlands nordkyst 1916-18, nr. 6.)

List of 95 vascular plants, with localities and occasional annotations.

——— Plants collected during the first Thule expedition to northernmost Greenland. Meddel. om Grønland 51: 371-381. 1915.

Localities visited; annotated list of 45 vascular plants (also mosses), including 28 not before reported from the northern part of northwestern Greenland; list of 10 additional species from that region not collected on this expedition.

——— Two plant lists from Inglefield Gulf and Inglefield Land (77°28' and 79°10' N. Lat.), N. W. Greenland. Meddel. om Grønland 64: 207-214. 1927 (1923). (Den II. Thule ekspedition til Grønlands nordkyst 1916-18, nr. 7.)

Includes lists of vascular plants from Inglefield Gulf at Kangerdlugssuak (40 species), and from Cape Agassiz, Inglefield Land (44 species); also list of 6 species from Cape Leiper, Rensselaer Bay, 78°44' N. Lat.

——— The vegetation of the north-coast of Greenland based upon the late Dr. Th. Wulff's collections and observations. Meddel. om Grønland 64: 221-263. 5 fig. (incl. map), 5 pl. 1927(1923). (Den II. Thule ekspedition til Grønlands nordkyst 1916-18, nr. 9.)

Table of vascular plants, showing localities; annotated list of 70 vascular plants; general features of vegetation and climate, biological features, plant formations. (Northern coast from Low Point, 83°6' N. Lat., to Midgaardsormen, 81°15' N. Lat.)

——— and Lundager, Andreas. List of vascular plants from north-east Greenland (N. of 76° N. lat.) collected by the Danmark-expedition 1906-1908. Meddel. om Grønland 43: 1-32. 3 fig., 6 pl. 1910.

Localities visited, bibliography; annotated list of 92 vascular plants.

Porsild, A. E. Contributions to the flora of West Greenland at 70°-71°45' N. lat. Meddel. om Grønland 58: 157-196. 2 fig. 1926. (Reprinted in Arb. Danske Arkt. Sta. Disko nr. 12. 1926.)

Localities visited by author in 1921, with notes on plants of each; list of 114 vascular plants from Pátút; annotated list of 203 vascular plants from the Nordost Bugt and the Waygat coast of Nûgssuaq Peninsula; discussion of affinity between flora of Nordost Bugt and that of Scoresby Sound; bibliography.

Porsild, M. P. List of vascular plants collected by Dr. N. C. Engell in the vicinity of the great glacier of Jakobshavn, about 69° lat. n. Meddel. om Grønland 34: 243-251. 1910.

Partly annotated list of vascular plants, with localities.

— The plant-life of Hare Island off the coast of West Greenland. Meddel. om Grønland 47: 249-274. 10 fig. (incl. map). 1911 (1910). (Arb. Danske Arkt. Sta. Disko nr. 3.)

Botanical explorations, geology, climate, plant formations; annotated list of 112 vascular plants; phytogeography, bibliography.

— and Porsild, A. E. The flora of Disko Island and the adjacent coast of West Greenland from 66°-71° N. lat. With remarks on phytogeography, ecology, flowering, fructification and hibernation. Part 1. Meddel. om Grønland 58: 1-155. 1926. (Preprinted in Arb. Danske Arkt. Sta. Disko nr. 11. 1920.)

History of botanical investigations, annotated list of important localities; annotated list of 285 species and varieties of vascular plants.

Rikli, Martin. Die den 80°n erreichenden oder überschreitenden gefässpflanzen. (Vorläufige mitteilung.) Vierteljahrsschr. Naturf. Gesell. Zürich 62: 169-193. 1917.

Annotated tabular list of 112 vascular plants, with highest latitude record, localities, etc.; bibliography, phytogeography. Covers northern Greenland, Ellesmere Land, Spitzbergen, Franz Joseph Land.

Seidenfaden, Gunnar. The vascular plants of south-east Greenland 60°04' to 64°30' N. lat. Meddel. om Grønland v. 106, no. 3. 129 p. 23 fig., map. 1933.

Botanical explorations, descriptive list of localities; annotated list of 206 vascular plants known from area, with localities and collectors; phytogeography, etc.; bibliography.

— and Sørensen, Thorvald. The vascular plants of northeast Greenland from 74°30' to 79°00' N. Lat. and a summary of all species found in East Greenland. Meddel. om Grønland v. 101, no. 4. 215 p. 59 fig. (incl. maps), 4 pl. 1937.

Botanical explorations, with annotated list of localities; annotated list of 128 vascular plants; ecology, etc.; tabular list of 321 vascular plants of East Greenland (60°04'-79°30' N. Lat.), showing range by districts, etc., with critical notes on many species; phytogeography; bibliography.

Simmons, H. G. A revised list of the flowering plants and ferns of north western Greenland with some short notes about the affinities of the flora. Report of the 2d Norwegian Arctic expedition in the *Fram* 1898-1902. no. 16. 111 p. 1 fig. (map). Kristiania, 1909.

Geographical and botanical explorations, gazetteer of localities, phytogeography; annotated list of 122 species; bibliography. Covers area north of Cape York (76° N. Lat.).

Sørensen, Thorvald. The vascular plants of East Greenland from 70°00' to 73°30' N. Lat. Meddel. om Grønland v. 101, no. 3. 177 p. 7 fig. (incl. maps), 20 pl. 1933.

Climate, gazetteer; annotated list of 172 species of vascular plants; local distribution, bibliography.

Vaage, Jakob. Vascular plants from Eirik Raude's Land (East Greenland 71°30'-75°40' lat. N.). Skrift. Svalbard og Ishavet (Oslo) no. 48. 87 p. (incl. map). 3 pl. 1932.

Botanical explorations, list of localities, general features of flora; annotated list of 183 vascular plants; tabular list of species, showing localities and collectors; bibliography.

UNITED STATES

GENERAL

Atwood, A. C. State and local floras . . . Annotations by S. F. Blake. Bul. Wild Flow. Preserv. Soc. no. 1. 16 p. 1930.

Briefly annotated list, geographically arranged, of principal regional and local floras of the United States; includes popular floras, but comparatively few strictly local lists.

Bergen, F. D. Popular American plant names. Bot. Gaz. 17: 363-380. 1892; 18: 420-427. 1893; 19: 429-444. 1894; 22: 473-487. 1896; 26: 247-252, 253-

258. 1898. (Reprinted from Jour. Amer. Folk-Lore v. 5-7, 9-10. 1892-1894, 1896-1898.)

Lists of vernacular names, with localities where used, systematically arranged; mostly from northeastern United States, some from Southern and Western States.

Brendel, Frederick. Historical sketch of the science of botany in North America from 1635 to 1840 [and to 1858]. Amer. Nat. 13: 754-771. 1879; 14: 25-38. 1880. (Reprinted, 31 p.—Additions . . . l. c. 14: 443. 1880.)

Sketch of early collectors and botanists (in region north of Mexico).

Britton, N. L. A list of State and local floras of the United States and British America. Annals New York Acad. Sci. 5: 237-300. 1890. (Reprinted as Contrib. Columb. Univ. no. 14.)

List of 791 floras and floristic papers, geographically arranged.

— and Shafer, J. A. North American trees; being descriptions and illustrations of the trees growing independently of cultivation in North America, north of Mexico and the West Indies. x, 894 p. 781 fig. 26 cm. New York, 1908.

Full descriptions of all species growing without cultivation in the United States and Canada; illustration of each species.

Bruhln, T. A. Prodrum florae adventiciae boreali-americanae. Vorläufer einer flora der in Nordamerika eingewanderten freiwachsenden oder im grossen cultivirten pflanzen. Verhandl. K. K. Zool.-Bot. Gesell. Wien 35: 387-450. 1886.

Annotated systematic list of 623 escaped or cultivated introduced species, with localities and native habitat.

Carter, J. M. G. A synopsis of the medical botany of the United States. x, 176 p. 23.5 cm. St. Louis, 1888.

Bibliography; compiled systematic list, with medicinal properties and dosage; indices.

Gray, Asa. Synoptical flora of North America . . . Continued and ed. by B. L. Robinson. v. 1-2, pt. 1. 27 cm. New York, 1878-97 (v. 1, pt. 1, 1895-97; v. 1, pt. 2, 1884; v. 2, pt. 1, 1878).

Descriptive flora, with synoptical keys to genera and partial keys to species, of the flowering plants of the North American continent north of the Mexican border, including Greenland. Incomplete: v. 1, pt. 1, Ranunculaceae—Polygalaceae; v. 1, pt. 2, Caprifoliaceae—Compositae; v. 2, pt. 1, Goodeniaceae—Plantaginaceae. A supplement to v. 1, pt. 2, issued in 1886, containing additions (including new species), corrections, and index consists of p. 445-480, and is to be carefully distinguished from the same pages of the first edition. There are other irregularities in paging in reissues. Vol. 1, pt. 2 and v. 2, pt. 1, containing all the Gamopetalae, were reissued in 1886 by the Smithsonian Institution.

Heller, A. A. Catalogue of North American plants north of Mexico, exclusive of the lower cryptogams. 2d ed. 8 p., 9-236 numb. l., 237-252 p. 23 cm. [n. p.] 1900. (1st ed., 1898.)

Systematic name-list of 16,673 species and varieties of vascular plants (14,534 in ed. 1). A third edition, issued 1912-14, was never completed (p. 13-276). It covers *Ophitoglossum* to *Uva-ursi* (*Arctostaphylos*) part, and reaches no. 15319.

Henkel, Alice. Wild medicinal plants of the United States. Bul. Bur. Plant Ind. U. S. Dept. Agr. no. 89. 76 p. 1906.

Briefly annotated alphabetical list of botanical and vernacular names of medicinal plants of commercial value, compiled from trade lists of drug dealers.—See also her Weeds used in medicine. Farmers' Bul. U. S. Dept. Agr. no. 188. 1904; American root drugs. Bul. Bur. Plant Ind. U. S. Dept. Agr. no. 107. 1907; American medicinal barks. l. c. no. 139. 1909; American medicinal leaves and herbs, l. c. no. 219. 1911; American medicinal flowers, fruits, and seeds. Bul. U. S. Dept. Agr. no. 26. 1913.—The material in all these publications, with some omissions and additions, is summarized and condensed in Sievers, A. F. American medicinal plants of commercial importance. Misc. Pub. U. S. Dept. Agr. no. 77. 74 p. 128 fig. 1930.

Johnson, Laurence. A manual of the medical botany of North America. xi, 292 p. 160 fig., 9 col. pl. 23.5 cm. New York, 1884.

Systematically arranged account; descriptions, habitat, part used, constituents, preparation, medical properties, and uses. Covers the United States (mainly eastern) and Canada only.

Medsger, O. P. Edible wild plants. xv, 323 p. illus., plates. 21 cm. New York, 1939.

Descriptive account of edible plants of the United States and Canada, the plants grouped according to the parts used; synoptical annotated lists of the same, divided geographically.

Meisel, Max. A bibliography of American natural history; the pioneer century, 1769-1865. The rôle played by the scientific societies; scientific journals, natural history museums and botanic gardens; State geological and natural history surveys; Federal exploring expeditions in the rise and progress of American botany, geology, mineralogy, palaeontology and zoology. 3 v. 23.5 cm. New York, 1924-29.

Vol. 1: Annotated bibliography of publications relating to history, biography, and bibliography of American [i. e. the United States] natural history from 1769 to 1865; selected list of biographies and bibliographies of principal United States naturalists up to 1865. Vol. 2: History and bibliography of principal institutions, societies, surveys, and periodicals concerned with natural history, organized up to 1844. Vol. 3: Same continued to 1865; annotated bibliography of books, pamphlets, and miscellaneous articles on natural history, 1590-1865, chronologically arranged; chronological table of publications of the different institutions; indices of authors and institutions; appendices.

Millsbaugh, C. F. American medicinal plants; an illustrated and descriptive guide to the American plants used as homoeopathic remedies . . . 2 v. 180 col. pl. 29 cm. New York, 1884-87. (Republished as: Medicinal plants . . . 1892.)

Treats of 180 plants, native (128 species), naturalized, or cultivated, each illustrated by a colored plate showing floral details; descriptions, history and habitat, part used, preparation, chemical constituents, physiological action; bibliographies (general and by species).

Muenschner, W. C. Poisonous plants of the United States. xvii, 266 p. 75 fig. 22 cm. New York, 1939.

General considerations, lists of special groups of poisonous plants, etc.; systematic list of over 400 vascular plants, with description, distribution, poisonous properties, symptoms, treatment, references; bibliography.

Pammel, L. H. A manual of poisonous plants chiefly of eastern North America, with brief notes on economic and medical plants. 2 v. (viii, 977 p.). 458 fig., plates. 23.5 cm. Cedar Rapids, 1910-11. (Also issued as 1 vol., 1911.)

General consideration of plant poisons; annotated systematic list of the more important poisonous plants of the United States and Canada, with bibliography; chemistry of alkaloids; annotated systematic list of poisonous plants of the United States and Canada (including bacteria and cellular cryptogams); tabular systematic catalog of poisonous plants of world, showing properties and locality; bibliography (by H. S. Kellogg) of 1,097 titles.

Sargent, C. S. Manual of the trees of North America (exclusive of Mexico). 2d ed. xxvi, 910 p. 783 fig., map. 22 cm. Boston, New York, 1922. (1st ed. 1905.)—Corrections and emendations of the second edition . . . Jour. Arnold Arboretum 7: 1-21. 1926.

Descriptive flora, with keys. Includes 717 species with additional varieties; figure of each species; glossary; map showing tree regions.

— The silva of North America: a description of the trees which grow naturally in North America exclusive of Mexico. 14 v. 740 pl. 37 cm. Boston, 1891-1902.

Systematic treatment of trees of North America north of Mexico; full synonymy, descriptions, range, wood, history, cultivation, with frequent biographical footnotes. The beautiful plates are by C. E. Faxon.

Saunders, C. F. Useful wild plants of the United States and Canada. 3d and rev. ed. 275 p. 20.5 cm. New York, 1934. (1st ed., 1920.)

Popular treatment, the plants classified by uses; classified list, geographically arranged.

Sudworth, G. B. Check list of the forest trees of the United States, their names and ranges. Misc. Cir. U. S. Dept. Agr. no. 92. 295 p. [1927.]

Systematic list of native and escaped species and varieties of trees (also cultivated varieties), with detailed range and vernacular names (with localities

where used). Revision of his earlier publication of same title. Bul. Div. Forestry U. S. Dept. Agr. no. 17. 1898.

Van Dersal, W. B. Native woody plants of the United States, their erosion-control and wildlife values. Misc. Pub. U. S. Dept. Agr. no. 303. 362 p. 44 pl., 3 maps. 1938.

Map of zones of plant growth, with discussion, etc.; briefly annotated alphabetical list of woody plants, with vernacular names, notes on viability, value for wild and domestic animals; bibliography.

Watson, Sereno. Bibliographical index to North American botany; or citations of authorities for all the recorded indigenous and naturalized species of the flora of North America, with a chronological arrangement of the synonymy. Pt. I. Polypetalae. Smithsn. Misc. Collect. no. 258. vi, 476 p. 1878.

A laborious compilation of synonymy, never completed (Ranunculaceae—Cornaceae). Covers North American continent north of Mexico, and Greenland.

Yanovsky, Elias. Food plants of the North American Indians. Misc. Pub. U. S. Dept. Agr. no. 237. 83 p. 1936.

Systematic list of 1,112 species, with brief annotations and references; bibliography. Intended to summarize all previous publications on the subject. (United States and Canada.)

Youngken, H. W. The drugs of the North American Indian. Amer. Jour. Pharm. 96: 485-502. 1924; 97: 158-185, 257-271. 1925.

Annotated list of 75 plant drugs (without botanical names), also animal and mineral drugs; annotated list of plant drugs alphabeted by scientific names; bibliography. (United States, principally.)

NORTHEASTERN

Britton, N. L. Manual of the flora of the northern states and Canada. 3d ed., rev. and enl. xxiv, 1,112 p. 20 cm. New York, 1907. (1st ed., 1901; 2d ed., 1905.)

Descriptive flora of vascular plants, with keys, based on the text of Britton and Brown's Illustrated Flora, and covering the same area.

— and Brown, Addison. An illustrated flora of the northern United States, Canada and the British possessions, from Newfoundland to the parallel of the southern boundary of Virginia, and from the Atlantic Ocean westward to the 102d meridian. 2d ed., rev. and enl. 3 v. 4,666 fig. 27.5 cm. New York, 1913. (1st ed., 1896-98.)

Descriptive flora of vascular plants, with keys and partial synonymy; figure of each species (4,666 species); extensive index of vernacular names.

Chamberlain, L. S. Plants used by the Indians of eastern North America. Amer. Nat. 35: 1-10. 1901.

Lists of useful plants of the tribes belonging to the Algonquian and Iroquoian families, with uses and references; bibliography.

Clute, W. N. A dictionary of American plant names. [2d ed.] 248 p. 20.5 cm. Joliet, Ill., 1923 [193?]. (1st ed., 1923.)

List of wild plants of northeastern North America (Gray's Manual range), with vernacular names, the families systematically arranged, the genera and species alphabetically; index. Cover title: American plant names. 2d ed.

Day, M. A. The local floras of New England. Rhodora 1: 111-120, 133-142, 158, 174-178, 194-196, 208-211. 1899.—Addenda. l. c. 2: 73-74. 1900. (Reprinted. 28 p. 1899.)

Briefly annotated list of 258 State and local floras.

Gray, Asa. Gray's new manual of botany (7th ed. illustrated). A handbook of the flowering plants and ferns of the central and northeastern United States and adjacent Canada, rearranged and extensively revised by B. L. Robinson and M. L. Fernald. 926 p. 1,036 fig. 21.5 cm. New York, 1908. (1st ed., 1848, 2d ed., 1856, 3d ed., 1859, 4th ed., 1863, 5th ed., 1867, 6th ed., rev. and extended westward to the 100th meridian by Sereno Watson and J. M. Coulter [1890], 2d issue [with additions and corrections. 1891].)

Descriptive flora, with keys, of the vascular plants (4,079 species and 806 varieties and forms, of which 3,413 and 766, respectively, are native); glossary. Covers area from Nova Scotia, Prince Edward Island, and New Brunswick and the greater part of Quebec and Ontario west to Minnesota and south to eastern Kansas, Missouri, Kentucky, and Virginia. Earlier editions had title, Manual

of the botany of the northern United States . . . —See also Robinson, B. L., and Fernald, M. L. Emendations of the seventh edition of Gray's Manual. *Rhodora* 11:33-61. 1909.

Hough, R. B. Handbook of the trees of the Northern States and Canada east of the Rocky Mountains. x, 470 p. 498 fig. 24.5 cm. Lowville, N. Y., 1907.

Descriptive account, with excellent photographs of each species showing leaves, fruit, buds, trunk, and usually cross section of wood, and small maps showing range; wood, uses; systematic synopsis with keys.

Klincksieck, Paul. Les plantes d'Europe adventices ou naturalisées aux États-Unis d'Amérique, constatées à deux intervalles: 1832 et 1896. *Bul. Soc. Bot. France* 54 (Sess. Extr.): xxx-xlii. 1908.

List of 501 species extracted from Britton and Brown's Illustrated flora, with indication of those (116 species) recorded by Schweinitz in 1836.

New England Botanical Club. Committee on floral areas. Preliminary lists of New England plants I-XXXIII. In *Rhodora* v. 1-11, 18-23, 27-29, 31, 38. 1899-1909, 1916-21, 1925-27, 1929, 1936.

Tabular lists of different families, showing ranges in the New England States, with annotations on rarer species. Not published in systematic order; unfinished.

Toussaint, Anatole, *abbé*. Europe et Amérique (nord-est). Flores comparées comprenant tous les genres européens et américains, les espèces communes aux deux contrées, naturalisées et cultivées. *Bul. Soc. Amis Sci. Nat. Rouen* 45:109-441. 1910: 46:93-414. 1911. (Reprinted 650 p. 1912.)

Systematic list of genera of vascular plants in Europe and the eastern United States and Canada, with number of species in each region, mention of species common to the two areas (with range), cultivated species, etc.; statistics.

SOUTHEASTERN

Chapman, A. W. Flora of the southern United States: containing an abridged description of the flowering plants and ferns of Tennessee, North and South Carolina, Georgia, Alabama, Mississippi, and Florida . . . 3d ed. xxxix, 655 p. 23 cm. Cambridge, Mass., 1897. (1st ed., 1860; 2d ed., 1883.)

Descriptive flora, now nearly obsolete, lacking the numerous discoveries of the last 40 years. Reissue of ed. 2 [1892] contains 2 supplements, paged continuously (N. Y. Bot. Garden).

Coker, W. C., and Totten, H. R. Trees of the southeastern states, including Virginia, North Carolina, South Carolina, Tennessee, Georgia, and northern Florida. 2d ed. vii, 417 p. illus., plates. 20.5 cm. Chapel Hill, 1937. (1st ed., 1934.)

Briefly descriptive flora, with keys, range, variations; bibliography, glossary.

Porcher, F. P. Resources of the southern fields and forests, medical, economical, and agricultural; being also a medical botany of the Southern States; with practical information on the useful properties of the trees, plants and shrubs. New ed., rev. and largely augmented. xv, 733 p. 23.5 cm. Charleston, S. C., 1869. (1st ed., 1863.)

Annotated, systematically arranged list of useful plants of the Confederate States, wild and cultivated.

Small, J. K. Flora of the southeastern United States: being descriptions of the seed-plants, ferns, and fern-allies growing naturally in North Carolina, South Carolina, Georgia, Florida, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, and in Oklahoma and Texas east of the one hundredth meridian. 2d ed. xii, 1,394 p. 25 cm. New York, 1913. (1st ed., 1903.)

Descriptive flora, with keys.

Manual of the southeastern flora; being descriptions of the seed plants growing naturally in Florida, Alabama, Mississippi, eastern Louisiana, Tennessee, North Carolina, South Carolina and Georgia. xxii, 1,554 p. illus. 23.5 cm. New York, 1933.

Physiographic provinces, etc.; descriptive flora of 5,557 spermatophytes; text figure of floral characters for each genus. The Pteridophyta of the same region are described in his Ferns of the Southeastern States . . . 517 p. illus. (incl. map). 1938.

WESTERN

Abrams, LeRoy. An illustrated flora of the Pacific States, Washington, Oregon, and California. v. 1 (xi, 557 p. 1,299 fig.). 27.5 cm. Stanford University, 1923.

Descriptive flora of vascular plants with keys, partial synonymy, and figure of each species. To be completed in 4 volumes; v. 1, Filicales—Aristolochiaceae.

Coulter, J. M. New manual of botany of the central Rocky Mountains (vascular plants) . . . rev. by Aven Nelson. 646 p. 22 cm. New York, [1909]. (1st ed., 1885.)

Descriptive flora of vascular plants, with keys, covering Colorado, Wyoming, Black Hills of South Dakota, northern half of New Mexico, adjacent Arizona, eastern Utah, most of Montana, southern Idaho; glossary. Includes 2,733 accepted species.

Frye, T. C., and Rigg, G. B. Northwest flora. 453 p. 25.5 cm. Seattle, [1912].

Keys to the flowering plants of Oregon, Washington, Idaho, and southwest British Columbia, with descriptions of genera and higher groups. Remarkable for the ingenuous ingenuity of its explanations of generic names.

Howell, Thomas. A flora of northwest America. Containing brief descriptions of all the known indigenous and naturalized plants growing without cultivation north of California, west of Utah, and south of British Columbia. Vol. 1. Phanerogamae. 792, [24] p. 24 cm. Portland, Oreg., 1897-[1903].

Descriptive flora of Oregon, Washington, and Idaho, with partial keys. No more published. Dates of issue: p. 1-112, Mar. 15, 1897; 113-274, Apr. 1, 1898; 275-386, Aug. 21, 1900; 387-474, Mar. 21, 1901; 475-562, Nov. 20, 1901; 563-666, July 20, 1902; 667-792, Aug. 10, 1903. The additional 24 pages, not found in all copies, are index.

Kirkwood, J. E. Northern Rocky Mountain trees and shrubs. xvii, 340 p. 87 fig., 35 pl. 23 cm. Stanford University, 1930.

Annotated descriptive flora (248 species), with keys. Includes region from Yellowstone Park, Wyoming, "north and northwest through Montana and Idaho and the Canadian Rockies, and covers the various ranges and the immediately adjacent plains."

McMinn, H. E., and Maino, Evelyn. An illustrated manual of Pacific coast trees . . . xii, 409 p. 415 fig., col. pl. 20 cm. Berkeley, 1935.

Descriptive flora of native trees growing from British Columbia to California, inclusive, and about 400 introduced species and varieties; bibliography; list of trees recommended for planting (by H. W. Shepherd).

Palmer, Edward. Food products of the North American Indians. Rpt. U. S. Commr. Agr. 1870: 404-428, pl. 19-28. 1871.—Plants used by the Indians of the United States. Amer. Nat. 12: 593-606, 645-655. 1878. (Also in Amer. Jour. Pharm. 50: 539-548, 586-592. 1878.)

Annotated list, the plants classified according to parts utilized. Refers mainly to western United States. The second part includes edible and some other useful plants.

Rydberg, P. A. Flora of the prairies and plains of central North America. vii, 969 p. 600 fig. 23.5 cm. New York, 1932.

Descriptive flora of 3,988 vascular plants, with keys; covers Kansas, Nebraska, Iowa, Minnesota, North Dakota, South Dakota, southern Manitoba, and southeastern Saskatchewan.

Flora of the Rocky Mountains and adjacent plains, Colorado, Utah, Wyoming, Idaho, Montana, Saskatchewan, Alberta, and neighboring parts of Nebraska, South Dakota, North Dakota, and British Columbia. 2d ed. xii, 1,144 p. 23 cm. New York, 1922. (1st ed., 1917.)

Descriptive flora of vascular plants, with keys; brief sketch of life zones; glossary. Includes 6,029 species. The only essential change in the 2d edition is the addition of p. 1111-1144 containing "Additions and corrections."

Stuhr, E. T. Manual of Pacific coast drug plants . . . 189 p. map. 23.5 cm. [n. p.], 1933.

Annotated list of 1,160 wild and cultivated plants, the families arranged alphabetically; bibliography, glossary.

Sudworth, G. B. Forest trees of the Pacific slope. 441 p. 207 fig. (partly on pl.), 2 maps. 23 cm. Washington, 1908.

Description and figure of each species, with detailed account of habit and bark, size and age, range and occurrence. Publication of U. S. Department of Agriculture, Forest Service.

ALABAMA

General

Cary, C. A., Miller, E. R., and Johnstone, G. R. Poisonous plants of Alabama. 42 p. 40 fig. 23 cm. [Auburn, 1924?] (Also as Alabama Polytech. Inst. Ext. Serv. Cir. 71.)

Annotated list.

Harper, R. M. Economic botany of Alabama, pt. 2. Catalogue of the trees, shrubs and vines of Alabama, with their economic properties and local distribution. 357 p. (incl. 66 fig., 23 maps). 23 cm. University, Ala., 1928. (Geol. Survey Alabama, Monogr. 9.)

Annotated bibliography; climate, soils, etc.; annotated list of woody plants (including cultivated ones) with uses. Pt. 1 is his Geographical report on forests (Monograph 8, 1913).

Mohr, C. T. The medicinal plants of Alabama. Systematic list of the medicinal plants, occurring within the limits of the state, with notes on their distribution and proper time of collecting the parts used. 17 p. 21.5 cm. Mobile, [1890].

Annotated systematic list, without mention of uses.

—— Plant life of Alabama. Contrib. U. S. Natl. Herb. v. 6. 921 p. 13 pl. (incl. map). 1901. (Reprinted as "Alabama edition," publication Alabama Geological Survey.)

Annotated systematic list of the plants (Myxomycetes—Carduaceae); physiography, plant associations; tables of geographic distribution. Total number of species and varieties 4,473, of which 2,476 are spermatophytes.

Local

Bates, F. A. Indigenous botany of Perry County. Proc. Med. Assoc. State Alabama 6: 58-68. 1853.

Annotated list of medicinal plants.

Cocks, R. S. Catalogue of trees growing naturally in the vicinity of Sardis, Dallas County, Alabama. Jour. Arnold Arboretum 6: 189-195. 1925.

Annotated list of about 130 species and varieties, nearly all growing on about 300 acres of land along the Alabama River.

Denny, Andrew. Report on the indigenous botany of Clarke County. Proc. Med. Assoc. State Alabama 5: 41-69. 1852; 6: 30-33. 1853.

Annotated list of medicinal plants, with properties and uses.

Earle, F. S. The flora of the metamorphic region of Alabama. Bul. Alabama Agr. Expt. Sta. 119. p. 41-120. 1902.

Ecology; annotated list of 1,146 species and varieties of vascular plants. The area covered extends from Lee County north to Cleburne County, then southwest to Chilton County, then southeast to Lee County, and includes the southernmost extension of the Appalachian mountain system.

ARIZONA

See also New Mexico (Castetter; Castetter and Opler).

General

Ewan, Joseph. Bibliography of the botany of Arizona. Amer. Midl. Nat. 17: 430-454. 1936.

Annotated chronological list; geographic and author indices.

Local

Britton, N. L. A list of plants collected at Fort Verde and vicinity and in the Mogollon and San Francisco Mountains, Arizona, 1884-1888, by Dr. E. A. Mearns, U. S. A. Trans. New York Acad. Sci. 8: 61-76. 1889. (Reprinted as Contrib. Herb. Columbia Col. no. 9.)

List of plants, with localities and collecting numbers.

Britton, N. L., and Kearney, T. H. An enumeration of the plants collected by Dr. Timothy E. Wilcox, U. S. A., and others in southeastern Arizona during the years 1892-1894. *Trans. New York Acad. Sci.* 14: 21-44. 1894.

List of species, mostly from Fort Huachuca and Fort Apache.

Castetter, E. F., and Underhill, R. M. The ethnobiology of the Papago Indians. *Univ. New Mexico Bul.* 275 (Biol. Ser. v. 4, no. 3). 84 p. 1935. (Ethnobiological studies in the American southwest II.)

General features of Papago life; account of useful plants and animals, classified by uses, with lists of species and vernacular names; bibliography. The region covered is a narrow strip along the Mexican border between the Gila River in southern Arizona and the Altar in northern Sonora.

Davidson, Anstruther. Flora of Clifton district, Arizona. *Bul. So. Calif. Acad. Sci.* 3: 110-111. 1904; 4: 18-19, 35-36. 1905; 5: 67-70. 1906; 6: 34-36. 1907.

Annotated list of dicotyledons collected by the author. (Greenlee County.)

Hough, Walter. The Hopi in relation to their plant environment. *Amer. Anthropol.* 10: 33-44. 1897.

Includes list of 144 useful plants, with Hopi and botanical names and uses, grouped by uses. (Northeastern Arizona.)

Matthews, Washington. Navajo names for plants. *Amer. Nat.* 20: 767-777. 1886.

Systematically arranged list of vernacular names, with botanical identifications, translations, and notes on uses. (Northeastern Arizona.)

Nelson, Aven. Flora of the Navajo Reservation. *Amer. Bot.* 26: 48-56, 87-89. 1920; 28: 20-25. 1922.

Annotated list of 152 vascular plants collected by W. N. Clute in 1919; not in systematic order. (Northeastern Arizona.)

Patraw, P. M. Check-list of plants of Grand Canyon National Park. *Nat. Hist. Bul. Grand Canyon Nat. Hist. Assoc.* no. 6. ix, 75 p. map. 1936.

Annotated list of cellular and vascular plants. (Processed publication.)—See also Dodge, N. N. Trees of Grand Canyon National Park. l. c. no. 3. 69 p. illus. 1936. (Processed publication.) (Coconino County.)

Read, A. D. The flora of the Williams division of the Tusayan National Forest, Arizona. *Plant World* 18: 112-123. 2 fig. 1915.

Plant zones; unannotated list of vascular plants. (Coconino County.)

Reagan, A. B. Plants used by the White Mountain Apache Indians of Arizona. *Wisconsin Archeol.* 8: 143-161. 1929.

Plant zones, agriculture, running account of useful plants; annotated alphabetical list of scientific names; no vernacular names given. (Apache County.)

Russell, Frank. The Pima Indians. *Ann. Rpt. Bur. Amer. Ethnol.* 26: 3-389. 100 fig., 47 pl. 1908.

Includes (p. 69-80) annotated list of wild edible and medicinal plants, with vernacular names. These Indians inhabit the Gila River and Salt River Valleys, in Pinal and Maricopa Counties.

Thornber, J. J. Vegetation groups of the Desert Laboratory domain. In Spalding, V. M. Distribution and movements of desert plants. p. 103-112. Washington, D. C., 1909. (Carnegie Institution of Washington Pub. no. 113.)

Includes list of 449 species (442 vascular) from an area in the vicinity of Tucson (Pima County).

Whiting, A. F. Ethnobotany of the Hopi. *Bul. Mus. North. Arizona* 15. viii, 120 p. 1939.

Includes (p. 61-100) annotated systematic list of useful plants, with vernacular names and uses; bibliography. (Northeastern Arizona.)

ARKANSAS

General

Branner, J. C., and Coville, F. V. A list of the plants of Arkansas. *Ann. Rpt. Geol. Survey Arkansas* 1888 (4): 155-242. 1891.

Botanical explorations, bibliography; list of 1,610 vascular plants (plus a very few cellular) with localities for scarcer species.—See also Buchholz, J. T., and Palmer, E. J. Supplement to the catalogue of Arkansas plants. *Trans. Acad. Sci. St. Louis* 25: 91-155. pl. 6-13. 1926. (Includes bibliography.)

Harvey, F. L. The arboreal flora of Arkansas. *Amer. Jour. Forestry* 1: 413-424, 451-458. 1883. (Reprinted 20 p.)

Geology, general features of forest distribution; annotated systematic list of trees, with vernacular names and local distribution.—A more popular recent work, with description and figure of most of the species, is Turner, L. M. *Trees of Arkansas*. Ext. Cir. Col. Agr. Arkansas no. 180. 112 p. illus. 1937. (Revision of Buchholz, J. T., and Mattoon, W. R. *Common forest trees of Arkansas* . . . 1924.)

Local

Evans, J. P. Medicinal plants of the Cherokees. *Proc. Amer. Pharm. Assoc.* 8: 391-397. 1859.

Annotated list, classified by uses. Region referred to is in northern Arkansas and Oklahoma.

Palmer, E. J. The ligneous flora of Hot Springs National Park and vicinity. *Jour. Arnold Arboretum* 7: 104-135. 1926.

History, botanical explorations, geology, physiography, plant associations; annotated list of woody plants. (Garland County.)

—— The ligneous flora of Rich Mountain, Arkansas and Oklahoma. *Jour. Arnold Arboretum* 5: 108-134. 1924.

Geology, general features of flora; annotated list of woody plants collected by author. (Le Flore County, Oklahoma, and Polk County, Arkansas.)

—— The Red River forest at Fulton, Arkansas. *Jour. Arnold Arboretum* 4: 8-33. 1923.

General features of flora; annotated list of woody plants. Additions are given by author, l. c. 7: 140-141. 1926. (Hempstead County.)

CALIFORNIA

General

Brewer, W. H., Watson, Sereno, and Gray, Asa. *Botany* [of California]. 2 v. 27 cm. Cambridge, Mass., 1876-80.

The classical work on the flora of California, although long out of date. Full descriptions, pertinent synonymy, and localities; general range stated; glossary; historical sketch of botanical collections (2: 553-559). Gamopetalae by A. Gray, various families by other authors.

Hall, H. M., and Grinnell, Joseph. Life-zone indicators in California. *Proc. Calif. Acad. Sci.* IV, 9: 37-67. 1919.

Discussion of life zone concept; lists of characteristic plants and animals; bibliography.

Jepson, W. L. *A flora of California*. v. 1, pt. 1-7; v. 2, pt. 1-3; v. 3, pt. 1. illus., plates. 27 cm. San Francisco, Berkeley, 1909-39.

Descriptive flora of spermatophytes, including numerous varieties and forms, with localities, exsiccatae, and references. The 11 parts so far issued cover Pinaceae-Convolvulaceae. The part numbers on the cover titles indicate the order of appearance of the text and do not correspond with the consecutive pagination.

—— *A manual of the flowering plants of California*. 1,233 p. 1,023 fig., map. 22.5 cm. Berkeley, c1923-25.

Keys to and descriptions of the vascular plants, including Pteridophyta; local range and often extralimital range given; short discussion of plant geography and life zones. Enumerates 4,019 species, of which 3,727 are native and 1,416 endemic. Treatment of various groups contributed by specialists.

—— *The silva of California*. 480 p. 11 fig., 85 pl., 3 maps. 32.5 cm. Berkeley, 1910. (Memoirs of the University of California, v. 2.)

Descriptive flora with keys, synonymy and references; details of distribution, vernacular names and uses, forest provinces, life zones, dendrological characteristics, bibliography.

—— *The trees of California*. 2d ed. 240 p. 124 fig. 20.5 cm. Berkeley, 1923. (1st ed., [1909].)

Descriptive flora with keys; illustration of nearly every species; uses, vernacular names, forest provinces; relation to fires, endemic species, etc.

McMinn, H. E. An illustrated manual of California shrubs . . . xi, 689 p. 775 fig., col. pl. 24.5 cm. San Francisco, 1939.

Descriptive flora including about 800 species and 200 varieties of native shrubs, undershrubs, and woody vines; bibliography, horticultural uses.

Schneider, Albert. The medicinal plants of the California Indians. Merck's Report 15: 63-66, 95-96, 127-128. 1906.

Annotated list, the species alphabetically arranged by botanical names; bibliography.

Pharmaceutical plants and their culture. Bul. State Bd. Forestry Calif. no. 2. 175 p. 1912.

Includes bibliography and chapter, "The native and introduced medicinal and poisonous plants of California, with index to common names," containing annotated list of 869 plants, arranged alphabetically.

Local

Abrams, LeRoy. Flora of Los Angeles and vicinity. x, 432 p. 18 cm. Stanford University, 1917. (Earlier eds. 1904, 1911.)

Descriptive flora with keys of the Spermatophyta of the coast area of Los Angeles and Orange Counties.

A phytogeographic and taxonomic study of the southern California trees and shrubs. Bul. N. Y. Bot. Gard. 6: 300-485. pl. A-J. 1910.

Annotated catalog with keys to genera and species; type locality, local range, exsiccatae; physiography, climatology, life zones. Covers area south of 35° 45' N. Lat.—See also Parish, S. B. Additions and emendations. Muhlenbergia 7: 73-81. fig. 12. 1911.

Applegate, E. I. Plants of the Lava Beds National Monument, California. Amer. Midl. Nat. 19: 334-368. 6 fig. 1938.

Geology, climate, geography, relationships and general features of flora; annotated list of about 200 plants. The Lava Beds National Monument lies in northeastern Siskiyou and northwestern Modoc Counties.

Barrett, S. A., and Gifford, E. W. Miwok material culture. Bul. Pub. Mus. Milwaukee 2: 117-376 (incl. 2 maps). fig. 23-87, pl. 28-76. 1933.

Includes (p. 140-178) annotated account of plant food, medicines, etc. The Indians lived in the Sierra Nevada and in part of the Sacramento-San Joaquin Valley.

Barrows, D. P. The ethnobotany of the Coahuilla Indians of southern California. 82 p. 24 cm. Chicago, 1900.

Includes account of useful plants. The Cahuilla, Coahuilla, or Coahuilla Indians live in western Riverside and southwestern San Bernardino Counties.

Blankinship, J. W. On the natural history of the Farallon Islands. Zoe 3: 144-165. 1892.

Geology; list of vascular and cellular plants including those in gardens.

Brandeggee, Mrs. M. K. Curran. Catalogue of the flowering plants and ferns growing spontaneously in the city of San Francisco. Zoe 2: 334-386. pl. 17 (map). 1892. (Reprinted.)—Additions . . . l. c. 3: 49-50. 1892.

General features of flora, list of plants flowering in January; annotated list of 578 vascular plants and 42 mosses.

Flora of Bouldin Island. Zoe 4: 211-218. 1893.

General features of flora; partly annotated list of vascular plants. Bouldin Island is a small island at the junction of the San Joaquin and the Mokelumne Rivers (San Joaquin County.)

List of the plants described in California, principally in the Proc. of the Cal. Acad. of Sciences, by Dr. Albert Kellogg, Dr. H. H. Behr, and Mr. H. N. Bolander; with an attempt at their identification. Bul. Calif. Acad. Sci. 1: 128-151. 1885.

The scope of the paper is indicated by its title.

Brandeggee, T. S. Flora of the Californian islands. Zoe 1: 129-148. 1890. Tabular list giving distribution of 512 vascular plants by islands, with footnote annotations; brief bibliography. Includes San Clemente, Santa Catalina, Santa Cruz, Santa Rosa, and San Miguel Islands.—For additions see Clokey, I. W. Notes on the flora of Santa Cruz Islands [Island]. Bul. So. Calif. Acad. Sci.

30: 60-61. 1931.—Also Hoffman, R. Notes on the flora of the Channel Islands off Santa Barbara, California. *Bul. So. Calif. Acad. Sci.* 31: 46-60, 101-120. 1932.

Brandeggee, T. S. Flora of the Providence Mountains. *Zoe* 5: 147-153. 1903. Physiography, etc.; partial list of spermatophytes collected by the author. (In the Mohave Desert, in San Bernardino County.)

Chesnut, V. K. Plants used by the Indians of Mendocino County, California. *Contrib. U. S. Natl. Herb.* 7: 295-408. fig. 66-78, pl. 10-21. 1902.

Annotated systematic list of cellular and vascular plants used by various tribes of Indians; list of species classified by uses; index of Indian names.

Congdon, J. W. Mariposa County as a botanical district. *Zoe* 2: 234-236. 1891; 3: 25-43, 125-131. 1892.

Plant zones; partly annotated lists of foothill plants totaling 508 species, and list of 122 species of the coniferous belt.

Constance, Lincoln. Flora of Redwood Peak, Oakland Hills, California. *Res. Studies State Col. Washington* 3: 12-24. 1935.

Geology, associations, etc.; unannotated list of vascular plants. (Alameda County.)

Coville, F. V. Botany of the Death Valley expedition. *Contrib. U. S. Natl. Herb.* v. 4. 363 p. 21 pl., map. 1893.

Itinerary, plant distribution (general and local), characteristics and adaptations of desert flora; annotated systematic list of vascular and cellular plants (1,261 species and varieties); catalog of specimens collected, numerically arranged; annotated bibliography; index to map. (Inyo County.)

Davidson, Anstruther, and Moxley, G. L. Flora of southern California. 452 p. 19.5 cm. Los Angeles, 1923.

Keys to all groups down to and including species, with descriptions of families and genera; local range. Includes Santa Barbara, San Bernardino, Riverside, Imperial, San Diego, Orange, and Los Angeles Counties.

Eastwood, Alice. A flora of the south fork of Kings River from Millwood to the head waters of Bubbs Creek. *Pub. Sierra Club* no. 27. 96 p. 9 fig. 1902.

Botanical explorations; descriptive flora of vascular plants, with keys to families and genera. (In Fresno and Tulare Counties, in the southern Sierra Nevada.)

Notes on the plants of San Nicolas Island. *In* her *Studies in the herbarium and field* no. 2. *Proc. Calif. Acad. Sci.* III, Botany 1: 89-120. pl. 8. 1898.

Geology, etc.; annotated list of 80 vascular plants collected in 1897 by Mrs. Blanche Trask.—For additions see Howell, J. T. The vascular plants from San Nicolas Island . . . 1. c. IV, 21: 277-284. 1935.

The plant inhabitants of Nob Hill, San Francisco. *Erythea* 6: 61-67. 1898.

General features of flora; list of 64 vascular plants, of which 55 are introduced. (San Francisco County.)

Fawcett, R. A. Flora of Riverside and vicinity. Western Riverside County, to the east edge of the Coachella Valley, and a contiguous portion of San Bernardino County to the north foot of the San Bernardino Mountains and keys for determining the names of native trees, shrubs, herbs, ferns, and most of the weed plants of cultivated fields (the grasses omitted). *Occas. Papers Riverside Junior Col.* v. 9, no. 1. 172 p. illus., map. 1939.

Unannotated flora in form of keys, the authorities for botanical names omitted; glossary.

Greene, E. L. Flora franciscana. An attempt to classify and describe the vascular plants of middle California. 480 p. 24.5 cm. San Francisco, 1891-97.

Incomplete (Ranunculaceae-Cynarocephalae [Compositae]). Pt. 4 (Cynarocephalae, p. 353-480) is rare, most of the stock having been destroyed by fire before distribution. Notable for its attribution of generic names to Dioscorides, Catullus, Lobelius, and the like.

Manual of the botany of the region of San Francisco Bay, being a systematic arrangement of the higher plants growing spontaneously in the counties of Marin, Sonoma, Napa, Solano, Contra Costa, Alameda, Santa Clara, San Mateo, and San Francisco. xiii, 342 p. 24.5 cm. San Francisco, 1894.

Descriptive flora. Omits sedges, grasses, ferns, and some minor groups.—See also Burt Davy, J. Additions . . . *Erythea* 4: 90, 145, 152. 1896.

Greene, E. L. Notes on the botany of Santa Cruz Island. *Bul. Calif. Acad. Sci.* 2: 377-416. 1887.

Botanical explorations, etc.; annotated list of 321 vascular plants.—For additions, see Brandegee, T. S., *Proc. Calif. Acad. Sci.* II, 1: 201-205. 1888.

—— The vegetation of the summit of Mount Diablo. *Erythea* 1: 166-179. 1893.

Topography, climate, botanical explorations; annotated list of 156 spermatophytes. (Contra Costa County.)

—— The vegetation of the summit of Mount Hamilton. *Erythea* 1: 77-97. 1893.

List of 212 vascular plants. (Santa Clara County.)

Hall, H. M. A botanical survey of San Jacinto Mountain. *Univ. Calif. Pub. Bot.* 1: 1-140. 14 pl. (incl. 2 maps). 1902.

Botanical collections; topography, life zones, relationships of flora; annotated list of spermatophytes collected in or above the yellow pine belt (excludes the foothill flora). (Riverside County.)

—— and Hall, C. C. A Yosemite flora; a descriptive account of the ferns and flowering plants, including trees, of the Yosemite National Park. vii, 282 p. 170 fig., 11 pl. 19 cm. San Francisco, 1912.

Popular descriptive flora of the vascular plants; the grasses, sedges, and rushes are omitted. (In Tuolumne, Mariposa, and Madera Counties.)

Jepson, W. L. Botany of the Marysville Buttes. *Bul. Torrey Club* 18: 317-327. 1891.

General features of flora; annotated list of vascular plants collected by the author in April 1891. The Marysville Buttes are an isolated group of mountains in the level plain between the upper Sacramento and Feather Rivers. (Sutter County.)

—— A flora of western middle California. 2d ed. 515 p. 20.5 cm. San Francisco, [1911]. (1st ed., 1901.)

Descriptive flora, with keys, of the Spermatophyta. Includes area from San Francisco Bay north to southern boundary of Mendocino, Lake, and Colusa Counties, east to the Sacramento and San Joaquin Rivers, south to the Pajaro River and Pacheco Pass (essentially the southern boundary of Santa Clara and Santa Cruz Counties).

—— Vegetation of the summit of Mt. St. Helena. *Erythea* 7: 105-113. pl. 1899.

Topography, general features of flora; annotated list of 36 species found above 2,400 feet elevation. (Napa County.)

Johnston, I. M. The flora of the pine belt of the San Antonio Mountains of southern California. *Plant World* 22: 71-90, 105-122. 2 fig. 1919.

Geography, collectors, life zones; annotated list of 315 native species and varieties of vascular plants. (On the Los Angeles-San Bernardino County boundary line.)

McClatchie, A. J. Flora of Pasadena and vicinity. In Reid, H. A. *History of Pasadena* . . . p. 605-649. illus. Pasadena, 1895. (Reprinted.)

Topography, etc.; annotated list of cellular and vascular plants. (Los Angeles County.)

Merriam, C. H. Results of a biological survey of Mount Shasta, northern California. *North Amer. Fauna* no. 16. 179 p. illus., 4 pl. 1899.

Includes (p. 135-169) an annotated list of plants collected on Mount Shasta. (Siskiyou County.)

Millsaugh, C. F., and Nuttall, L. W. Flora of Santa Catalina Island (California). *Pub. Field Mus. Nat. Hist.* 212, Bot. Ser. v. 5. 413 p. 14 pl., map. 1923.

Descriptive flora of vascular plants, with keys, synonymy, and citation of exsiccatae; enumeration of non-vascular plants, with occasional descriptions; description of island and of principal collecting stations; annotated list of collectors. Includes 882 species, of which 467 are vascular plants.

Munz, P. A. A manual of southern California botany. xxxix, 642 p. 310 fig. 22.5 cm. Claremont, 1935.

Geology, physiography, life zones, phytogeography, endemism; briefly descriptive flora of vascular plants; list of collectors for whom species have been

named, glossaries. Covers Los Angeles, San Diego, Orange, Riverside, San Bernardino, and Ventura Counties, and part of Santa Barbara, Kern, and Inyo Counties.

Parish, S. B. A bibliography of the southern California flora. *Bul. So. Calif. Acad. Sci.* 8: 71-75. 1909; 9: 57-62. 1910; 19: 24-29. 1920.

Unannotated list of papers, chronologically arranged under authors' names, referring to Los Angeles, San Diego, San Bernardino, Riverside, and Orange Counties. In the 1920 supplement the area is extended to include Santa Barbara, Ventura, Kern, and Inyo Counties.

— An enumeration of the pteridophytes and spermatophytes of the San Bernardino Mountains, California. *Plant World* 20: 163-178, 208-223, 245-259. 3 fig. 1917; 21: 220-221. 1918.

Geography, climate, etc.; annotated list of vascular plants. (San Bernardino County.)

— The immigrant plants of southern California. *Bul. So. Calif. Acad. Sci.* 19 (4): 3-30. 1920.

General history of introduction of weeds into California; bibliography; annotated list of 281 species and varieties of introduced plants.

— Plant ecology and floristics of Salton Sink. In MacDougal, D. T. *The Salton Sea*. (Carnegie Institution of Washington Pub. no. 193.) p. 85-114. Washington, 1914. (List preprinted, 11 p., 1913, with title: Catalogue of plants collected in the Salton Sink.)

Includes (p. 104-114) annotated list of cellular and vascular plants. (At the junction of San Diego, Imperial, and Riverside Counties.)

Peirson, F. W. Plants of Rock Creek Lake basin, Inyo County, California. A check list. 16 p. 23 cm. Los Angeles, 1938.

Annotated list of vascular plants collected by the author at 10,500 feet elevation and higher.

Smiley, F. J. A report upon the boreal flora of the Sierra Nevada of California. *Univ. Calif. Pub. Bot.* v. 9. 423 p. 7 pl. 1921.

Keyed list of the vascular plants of the higher Sierra Nevada (mainly above 6,500 feet); type locality, general range, life zone, local *exsiccatae*, with numerous critical notes; geography, physiography, climatology, life zones, statistics of flora. Includes 682 species and varieties.

Sparkman, P. S. The culture of the Luiseno Indians. *Univ. Calif. Pub. Amer. Archaeol. and Ethnol.* 8: 187-234. pl. 20. 1908.

Includes (p. 228-234) annotated systematic list of useful plants, with vernacular names. The paper relates to the region of Rincon, San Diego County.

Voegelin, E. W. Tübatulabal ethnography. *Anthropol. Rec.* 2: 1-84. 16 fig. (incl. map.), 6 pl. 1938.

Includes account of useful plants (p. 14-21), with Indian vernacular names. (Processed publication.) (Upper part of the Kern River valley.)

Yates, L. G. Insular floras. *Ann. Rpt. State Mineralogist Calif.* 9: 179-188. 1890. (Reprinted in his *Channel Islands* [1890], p. 11-20.)

Includes tabular list of vascular plants from San Miguel, Santa Rosa, Santa Cruz, and Anacapas (Anacapa) Islands of the Santa Barbara group. The flora of Anacapa Island has apparently not been listed elsewhere.—For additions see Hoffmann, E. Notes on the flora of the Channel Islands. *Bul. So. Calif. Acad. Sci.* 31: 46-60, 101-120. 1932.

COLORADO

See also Utah (Graham).

General

Allison, E. M. Bibliography and history of Colorado botany. *Univ. Colorado Studies* 6: 51-76. 1908.

Partly annotated list referring principally to Spermatophyta, arranged alphabetically by authors, their papers arranged chronologically; biographical notes on botanists who have worked in Colorado.

Cary, Merritt. Principal trees and shrubs of Colorado. In his *Biological survey of Colorado*. *North Amer. Fauna* 33: 212-246. fig. 30-39 (incl. map). 1911.

Annotated list, with details of local distribution.

Durrell, L. W., and Newsom, I. E. Colorado's poisonous and injurious plants. Bul. Colorado Expt. Sta. 455. 71 p. 92 fig. 1930.

Annotated list, alphabetically arranged by vernacular names.

Ramaley, Francis. Colorado plant life. viii, 299 p. illus., 10 pl. (3 col.). 23.5 cm. Boulder, 1927. (University of Colorado semicentennial series, v. 2.) General popular account of life zones, associations, etc.; no list of species; bibliography.

——— European plants growing without cultivation in Colorado. Annales Jard. Bot. Buitenz. Suppl. 3 (2): 493-504. 1 fig. (map). 1910.

Topography, climate, sources of introduction; annotated list of 95 angiosperms; local distribution, etc.

Rydberg, P. A. Flora of Colorado. Bul. Colorado Agr. Expt. Sta. 100. xxii, 448 p. 1906.

Keys to the orders, families, genera, and species of vascular plants (2,912 species); general range, altitudinal range, and Colorado localities given.

Local

Ashton, R. E. Plants of Rocky Mountain National Park. iv, 157 p. illus., col. pl., fold. tab. 23 cm. Washington, 1933.

A popular flora, with partial keys, but including all the species (about 700) of vascular plants known to occur in the Park; bibliography. Published by the National Park Service. (North central Colorado, northwest of Boulder, in Larimer, Grand, and Boulder Counties.)

Cockerell, T. D. A. The alpine flora of Colorado. Amer. Nat. 40: 861-873. 1906.

Lists of species classified by geographical and altitudinal range, based on Rydberg's Flora of Colorado.

Daniels, F. P. The flora of Boulder, Colorado, and vicinity. Univ. Missouri Studies Sci. Ser. v. 2, no. 2. 311 p. 1911.

Physiography, plant zones, bibliographies; annotated list of 1,225 vascular plants.—See also Cockerell, T. D. A. Notes on the flora of Boulder County, Colorado. Torreya 8: 177-183. 1918. (Covers Boulder County.)

Eastwood, Alice. A popular flora of Denver, Colorado. 57 p. 23 cm. San Francisco, [1893].

Annotated list of 487 vascular plants. (Denver County.)

Holm, Theodor. The vegetation of the alpine region of the Rocky Mountains in Colorado. Mem. Natl. Acad. Sci. v. 19, no. 3. 45 p. 7 pl. 1923.

Annotated list of about 170 plants collected by the author; phytogeography, morphology.

Ramaley, Francis. Botany of the San Luis Valley in Colorado, I. Univ. Colorado Studies 17: 27-44. 4 fig. (incl. maps), 2 pl. 1929.

Geography, soils, climate, history, etc.; unannotated list of vascular plants; vegetation of sand dunes and sand hills; bibliography. (Saguache County.)

——— Vascular plants of the Tolland region in Colorado. Univ. Colorado Studies 12: 27-51. 1917.

List of 722 vascular plants, annotated by symbols. Tolland is in Boulder Park, in Gilpin County, at 8,889 feet elevation.

——— Woody plants of Boulder County. His The silva of Colorado III. Univ. Colorado Studies 5: 47-63. 2 fig. (incl. map). 1907.

Botanical explorations, economic plants, geography, plant zones; annotated list of 112 woody plants.

Schmoll, H. M. Vegetation of the Chimney Rock area, Pagosa-Piedra region, Colorado . . . iii, 58 p. 5 fig. (incl. map). Chicago, 1935. (Dissertation — Chicago.)

Mainly ecological; includes tabular list of cellular and vascular plants, with indication of their plant association; bibliography. The Chimney Rock area is in Archuleta County. (Processed publication.)

Soth, Blanche. List of plants collected above timber line on Pikes Peak, with altitudinal extensions and notes. Bul. Torrey Club 38: 237-242. 1911.

Alphabetical list of 157 spermatophytes, with list of altitudes for some of these; notes on various species. (On boundary line between Teller and El Paso Counties.)

CONNECTICUT

See also New York (Taylor, Flora of the vicinity of New York).

General

Graves, C. B., Eames, E. H., Bissell, C. H., Andrews, Luman, Harger, E. B., and Weatherby, C. A. Catalogue of the flowering plants and ferns of Connecticut growing without cultivation. Bul. Conn. Geol. and Nat. Hist. Survey 14. 569 p. 1910.—First supplement. Additions to the flora of Connecticut. l. c. Bul. 48. 94 p. 1930 [1931].

Annotated systematic list of 2,228 species, varieties, and named forms (1,942 species, of which 1,481 are native), plus 169 fugitives. Supplement includes "Additions" published by Harger and others in *Rhodora* v. 19 and 24. Harger main author of supplement; R. W. Woodward and G. H. Bartlett replaced Bissell and Andrews as joint authors of supplement.—See also Eames, E. H. Further additions to the Connecticut flora. *Rhodora* 33: 167–170. 1931.

Local

Andrews, Luman. A list of the flowering plants and higher cryptogams growing upon the summit of Meriden Mountain, Conn. [15 p.] 20.5 cm. Southington, Conn., 1900. (Reprinted as Conn. School Document 195 (1901, no. 3). 1901.)

Soil, general features of flora; annotated list of 287 vascular plants. (In town of Meriden, New Haven County.)

Berzelius Society. A catalogue of the flowering plants and higher cryptogams growing without cultivation within thirty miles of Yale College. vii, 71 p. map. 23 cm. New Haven, 1878.

Notes on rarer species, etc.; list of vascular plants and bryophytes, unannotated except for localities. Includes over 100 species from the northern shore of Long Island, not found in Connecticut.—See also Eaton, D. C. Plants new to the Connecticut flora. Bul. Torrey Club 10: 102. 1883.—Miller, E. S. A few additions to the Berzelius catalogue. l. c. 10: 120–121. 1883.

Bissell, C. H., and Andrews, Luman. Flora of the town of Southington and vicinity. A list of the fern and seed plants growing without cultivation. Rpt. Bd. Educ. Conn. [1900/01] (Pub. Doc. no. 8): 391–506. map. 1902.

Physiography, etc.; annotated list of 1,201 vascular plants (including 990 native species.) (Hartford County.)

Blewitt, A. E. Flora of Waterbury, Conn., and vicinity. 160 p. 23.5 cm. [Lancaster, Pa.] 1926.

Physiography, etc.; annotated list of 1,271 vascular plants, of which 953 are native. (New Haven County.)

Brace, J. P. List of plants growing spontaneously in Litchfield and its vicinity. Amer. Jour. Sci. 4: 69–86, 292–309. 1822.

Partly annotated list of vascular plants, on the Linnaean system. Brace's herbarium is still preserved at Williams College, Williamstown, Mass. (fide C. A. Weatherby). (Litchfield County.)

[Holcomb, Irving.] Native trees, shrubs and woody vines growing in the vicinity of Granby, Conn. 1 leaf. 27 cm. [Granby, 1901.]

Unannotated list of 144 woody plants. (Hartford County.)

Leonard, E. J. Catalogue of the phaenogamous and vascular cryptogamous plants, found growing in Meriden, Conn. ("Incompleted.") Trans. Scient. Assoc. Meriden, Conn. 1: 1–40. 1885.

Sparsely annotated list of 749 vascular plants.—See also Kendrick, Mrs. E. B. Additional plants . . . found growing in Meriden . . . since issue of Catalogue . . . l. c. 2: 54–57. 1887.—Also Davis, C. H. S. A list of the forest trees and shrubs to be found in Meriden, Conn. l. c. 3: 46–78. 1889. (New Haven County.)

Rogers, Mrs. E. E. Flora of Norwich and vicinity. Rpt. Bd. Educ. Conn. [1900/01] (Pub. Doc. no. 8): 342–372. 1902.

Annotated list of 833 vascular plants. (New London County.)

DELAWARE

See also Pennsylvania (Keller and Brown; Pennell).

Local

Tatnall, Edward. Catalogue of the phaenogamous and filicoid plants of New-castle County, Delaware. Arranged according to the natural system, as recently revised by Prof. A. Gray and others. With the synonyms of modern authors. 112 p. 22.5 cm. Wilmington, 1860.

Annotated list of 1,106 species and varieties of vascular plants; unannotated list of diatoms and desmids, by C. Febiger.

Williamson, C. S. Notes on the flora of central and southern Delaware. Torreyia 9: 160-166. 1909.

List of miscellaneous species with localities.

DISTRICT OF COLUMBIA

General

Hitchcock, A. S., and Standley, P. C. Flora of the District of Columbia and vicinity. Contrib. U. S. Natl. Herb. v. 21. 329 p. 42 pl. 1919.

Bibliography, general features of flora; annotated systematic list of vascular plants with keys. Lists formally 1,630 species (of which 287 are introduced); 108 others, occurring only as waifs, incidentally mentioned. Covers the area within 15 miles of the Capitol, including parts of adjacent Virginia and Maryland. Replaces Ward, L. F. Guide to the flora of Washington and vicinity. Bul. U. S. Natl. Mus. no. 22. 264 p. 1881, and 6 lists of additions, 1884-1901 (2d by F. H. Knowlton, 3d-5th by T. Holm, 6th by E. S. Steele).—See also McAtee, W. L. Seventh supplement to the flora of the District of Columbia and vicinity. Proc. Biol. Soc. Washington 43: 21-54. 1930.

Ricker, P. L. A sketch of botanical activity in the District of Columbia and vicinity. Jour. Washington Acad. Sci. 8: 487-498, 516-521. 1918.

Botanical collectors and societies; annotated bibliography.

FLORIDA

General

Small, J. K. Florida trees; a handbook of the native and naturalized trees . . . ix, 107 p. 23.5 cm. New York, 1913.

Descriptive flora, with keys; general range briefly indicated; wood characters very briefly described.

— Shrubs of Florida; a handbook of the native and naturalized shrubs. . . x, 140 p. 23.5 cm. New York, 1913.

Descriptive flora, with keys; general range briefly indicated.

Stuhr, E. T. Medicinal plants of Florida. Jour. Amer. Pharm. Assoc. 17: 761-766. 1928.

Unannotated systematic list.

Local

Baerecke, J. F. Analytical key to the ferns and flowering plants in the Atlantic section of middle Florida (wild and cultivated). 2d ed. 177 p. 20 cm. Deland, 1914. (1st ed., 1906.)

Annotated flora, in form of keys; authorities for botanical names omitted.

Bowman, H. H. M. Botanical ecology of the Dry Tortugas. Papers Dept. Mar. Biol. Carnegie Inst. Washington 12: 109-138. 7 fig. (maps), 6 pl. 1918. Geology, climate, general features of vegetation, discussion of each key with list of species and map showing location of each species; ecology; list of marine plants.

Chapman, A. W. A list of plants growing spontaneously in the vicinity of Quincy, Florida. West. Jour. Med. and Surg. (Louisville, Ky.) n. s., 3: 461-483. 1845. (Reprinted, 23 p.)

Unannotated list of vascular plants. (Gadsden County.)

Harper, R. M. Geography and vegetation of northern Florida. Ann. Rpt. Florida State Geol. Survey 6: 163-437 (incl. map, plates). 1914. (Reprinted.)

Includes lists of principal species, divided according to habit, from 20 local regions north of the southern boundaries of Lafayette, Alachua, Putnam, and St. Johns Counties, with account of geology, soils, topography, vegetation types, and economic features of each region; annotated bibliography.

——— Geography of central Florida. Ann. Rpt. Florida State Geol. Survey 13: 71-288. fig. 2-43 (incl. maps). 1921.

Includes (p. 84-153) brief lists of the commonest plants in 10 regions from Levy, Marion, and Volusia to Hillsborough, Polk, Osceola, and Brevard Counties, with notes on topography, geology, soils, vegetation, agriculture, etc., of each region.

Hitchcock, A. S. A list of plants collected in Lee County, Florida. Proc. Iowa Acad. Sci. 9 (1901): 189-225. 1902.

General features of flora; annotated list of 549 vascular plants collected by the author in 1900.

McAtee, W. L. A list of plants collected on St. Vincent Island, Florida. Proc. Biol. Soc. Washington 26: 39-51. 1913.

List of 261 vascular plants collected in late autumn and winter, with notes on fruiting and flowering. (Near Apalachicola, in Franklin County.)

Melville, J. C. List of the phanerogams of Key West, south Florida, mostly observed there in March, 1872. Mem. Manchester Lit. and Phil. Soc. III, 8: 138-154. 1884.

Topography; annotated list of 168 vascular plants, plus a few sedges, grasses, and ferns. (Monroe County.)

Millspaugh, C. F. Flora of the sand keys of Florida. Pub. Field Mus. Nat. Hist. 118, Bot. Ser. 2: 191-245. illus. (maps). 1907.

List of vascular plants of each of the sand keys to the westward of Key West, with map of each key, showing graphically the distribution of each species; table summarizing local distribution.

Murrill, W. A. Flora of Alachua County, Florida. Preliminary check list. 35 p. 28 cm. Gainesville, 1937.

Soils, etc.: list of vascular plants, annotated as to abundance, divided into vines, shrubs, trees, Compositae, etc.; the grasses, sedges, and rushes "reserved for a separate publication." (Processed publication.)

Small, J. K. Flora of Miami; being descriptions of the seed-plants growing naturally on the Everglade keys and in the adjacent Everglades, southern peninsula Florida. xii, 206 p. 23.5 cm. New York, 1913.

Descriptive flora, with keys; general range stated. (Dade County.)

——— Flora of the Florida Keys; being descriptions of the seed-plants growing naturally on the islands of the Florida reef from Virginia Key to Dry Tortugas. xii, 162 p. 23.5 cm. New York, 1913.

Descriptive flora, with keys; extralimital range given.

GEORGIA

General

Anonymous. Catalogue of the flora in Georgia, arranged according to the Linnean and natural system. In White, George. Statistics of Georgia. suppl. p. 43-77. Savannah, 1849.

Unannotated alphabetical list of vascular plants, of uncertain authorship.

Harper, R. M. Georgia's forest resources. South. Woodlands 1 (3): 4-23, (4): 1-19, (5): 3-19, (6): 15-32. illus. (maps), 3 pl., map. 1907-08.

Botanical explorations and publications, phytogeographical regions; annotated list of 134 trees, in reverse of the usual systematic order, with mention of about 20 others of probable occurrence.

Justice, R. S. Some medicinal and poisonous plants of Georgia. Bul. Univ. Georgia v. 39, no. 9. iii, 49 p. 2 fig. (maps). 1939.

Includes annotated alphabetical lists of medicinal and poisonous plants.

Local

Feay, W. T. Catalogue of phaenogamous plants, growing spontaneously within thirty miles of Savannah, Geo., with their periods of inflorescence, heights, stations, etc., arranged alphabetically for convenience of reference, and numbered consecutively for facilitating exchanges. *Oglethorpe Med. and Surg. Jour.* 3: 167-217. 1860.

Annotated alphabetical tabular list of 794 plants.

Harper, R. M. Notes on the flora of middle Georgia. *Bul. Torrey Club* 27: 320-341. pl. 22. 1900.

Topography, etc.; lists of species belonging to different floral areas; records of rare species. (In Clarke, Jackson, Oconee, and Walton Counties.)

Notes on the flora of south Georgia. *Bul. Torrey Club* 27: 413-436. 1900.

Lists of species of different habitats; annotated list of rarer vascular plants collected by the author in 1895-97, mostly in vicinity of Americus, Sumpter County.

A phytogeographical sketch of the Altamaha grit region of the coastal plain of Georgia. *Annals N. Y. Acad. Sci.* 17: 1-357. 28 pl., map. 1906.

Topography, climatology, habitat groups, etc.; annotated list of plants (739 vascular); general features of distribution; bibliography. (A roughly diamond-shaped region in southern Georgia, south of 32°50' N. Lat., extending from the southwest corner of the State northeast to Screven County.)

Wright, A. H., and Wright, A. A. The habitats and composition of the vegetation of Okefinokee Swamp, Georgia. *Ecol. Monog.* 2: 109-232. 75 fig. (incl. maps). 1932.

Ecological; includes lists of vascular plants of different habitats. (The area is mostly in Charlton County.)

IDAHO

See also Oregon (Hemenway); Washington (St. John, Flora of southeastern Washington; St. John and Warren, Preliminary list of the plants of the Kaniksu National Forest).

Local

Holzinger, J. M. Report on a collection of plants made by J. H. Sandberg and assistants in northern Idaho in the year 1892. *Contrib. U. S. Natl. Herb.* 3: 205-287. pl. 3-4. 1895.

List of vascular and cellular plants, with data of collections of each. A critical review by A. A. Heller (*Bul. Torrey Club* 23: 155-157. 1896) should be consulted in connection with this list. (Principally in Nez Perce, Latah, and Kootenai Counties.)

Spinden, H. J. The Nez Percé Indians. *Mem. Amer. Anthropol. Assoc.* 2: 165-274. fig. 2-6, pl. 6-10. 1908.

Includes (p 200-205) an account of plants used as food. These Indians inhabited Idaho, Oregon, and Washington from the Bitterroot Mountains to the Blue Mountains.

ILLINOIS

See also Indiana (Schneck); Missouri (Engelmann Botanical Club).

General

Carter, J. M. G. A synopsis of the medical botany of Illinois. 45 p. 24.5 cm. Chicago, 1884.

Briefly annotated systematic list, including cultivated plants.

Miller, R. B., and Tehon, L. R. The native and naturalized trees of Illinois. *Bul. Illinois Nat. Hist. Survey* 18: 1-339 (incl. 149 fig., 98 pl.). 1929.

Keys; list, with descriptions, distribution, uses; forest reserves, etc.

Patterson, H. N. Catalogue of the phaenogamous and vascular cryptogamous plants of Illinois, native and introduced. 54 p. 21.5 cm. Oquawka, 1876.

Annotated list of 1,542 vascular plants.

Local

Brendel, Frederick. *Flora Peoriana*; the vegetation in the climate of middle Illinois. 89 p. 26 cm. Peoria, 1887.

Topography, climate, habitats, etc.; list of vascular and cellular plants (835 vascular), with very brief annotations. (Peoria County.) An enlarged and corrected issue of his *Flora Peoriana* originally published in *Természetrájsi füzetek* v. 5, pt. 2-4, 1882. (Reprinted, 107 p.)

Gates, F. C. Contribution to the flora of Cass County, Illinois. *Trans. Illinois State Acad. Sci.* 15: 165-170. 1922.

Unannotated list of 393 vascular plants from vicinity of Virginia, Cass County.

Contributions to the flora of Hancock County, Illinois. *Trans. Illinois State Acad. Sci.* 18: 225-234. 1925.

Topography, etc.; unannotated list of over 650 vascular plants.

The vegetation of the beach area in northeastern Illinois and southeastern Wisconsin. *Bul. Illinois State Lab. Nat. Hist.* 9: 255-372. pl. 37-56. 1912.

Mainly ecological; contains annotated list of plants; bibliography.

Gleason, H. A. The vegetation of the inland sand deposits of Illinois. *Bul. Illinois State Lab. Nat. Hist.* 9: 23-174. 20 pl. 1910.

Mainly ecological; contains annotated list of vascular plants; bibliography. (Includes several areas north of 40° N. Lat.)

Henderson, L. B. The plants of Castle Rock. A preliminary report. *Trans. Illinois State Acad. Sci.* 21: 144-151. 1929.

Geology, general features of flora; list of cellular and vascular plants, ecologically arranged. (Ogle County.)

Huett, J. W. Essay toward a natural history of La Salle County, Ill. Pt. I—Botany. *Flora La Sallensis*. 136 p. 23.5 cm. Ottawa, Ill., 1897.

Botanical explorations, topography, geology, climate, general features of flora, etc.; annotated list of vascular plants.

Patterson, H. N. A list of plants collected in the vicinity of Oquawka, Henderson County, Ills. 18 p. 23 cm. Oquawka, 1874.

List of 709 vascular plants (also mosses), with flowering dates and occasional annotations. Has only cover title; caption title reads: Catalogue.

Pepoon, H. S. An annotated flora of the Chicago area. xxii, 554 p. illus. (incl. maps), pl. 23.5 cm. Chicago, 1927. (Bulletin 8, Natural history survey [Chicago Academy of Sciences].)

Geology, floral regions; annotated list of 1,903 vascular plants. Replaces the earlier "Flora of Cook County, Illinois, and a part of Lake County, Indiana" of W. K. Higley and C. S. Raddin, 1891.—See also Buhl, C. A. Supplement . . . *Bul. Chicago Acad. Sci.* 5: 5-12. 1934. (Region in vicinity of Lake Michigan from north of Waukegan, Illinois, nearly to Michigan City, Indiana, including Cook, Du Page, and part of Will and Lake Counties, Ill., and northern part of Lake and Porter Counties, Ind.)

Raddin, C. S. Catalogue of the phaenogamous plants of Evanston and vicinity, for 1883. 26 p. 19 cm. Evanston, 1883.

Unannotated list of 706 species. (Cook County.)

Ridgway, Robert. Notes on the native trees of the lower Wabash and White River valleys, in Illinois and Indiana. *Proc. U. S. Natl. Mus.* 5: 49-88. 1883 (1882).—Additions and corrections to the list of native trees of the lower Wabash. *Bot. Gaz.* 8: 345-352. 1883.—Additional notes . . . *Proc. U. S. Natl. Mus.* 17: 409-421. pl. 10-15. 1895.

Local distribution, dimensions of large trees; annotated list of 92 trees, with special mention of large specimens. (Southeastern Illinois and adjacent Indiana from about 37°50' to 38°50' N. Lat., with especial reference to vicinity of Mount Carmel, Wabash County, Illinois.)

Sampson, H. C. An ecological survey of the prairie vegetation of Illinois. *Bul. Illinois State Nat. Hist. Survey* 13: 523-577. illus. (maps), pl. 48-77. 1921.

Includes (p. 559-568) tabular list of vascular plants, with indication of their plant associations.

Thone, Frank. Preliminary check list of the vascular plants of the Illinois State Park at Starved Rock, LaSalle County. *Trans. Illinois State Acad. Sci.* 17: 100-106. 1925.

Botanical explorations; unannotated list of vascular plants; bibliography.— See also Ries, D. T. Additions to the flora of Starved Rock State Park. *l. c.* 32: 89-90. 1939.

INDIANA

See also Illinois (Pepon; Ridgway).

General

Coulter, J. M. A century of botany in Indiana. *Proc. Indiana Acad. Sci.* 1916: 236-260. 1917.

Brief summary of local botanical history; mostly unannotated bibliography, arranged alphabetically by authors. Incorporates and replaces, except for a few annotations, Underwood, L. M. *Bibliography of Indiana botany.* *l. c.* 1893: 20-30. 1894.

Coulter, Stanley. A catalogue of the flowering plants and of the ferns and their allies indigenous to Indiana. *Ann. Rpt. Indiana Dept. Geol. and Nat. Res.* 24: 553-1002, 1019-1074. 1900.—Additions to the flora of Indiana. *Proc. Indiana Acad. Sci.* 1900: 136-143. 1901.—Contributions . . . *l. c.* 1901: 297-303. 1902.

Geography, physiography, plant societies, poisonous plants, etc.; bibliography; annotated list of vascular plants.—See also Deam, C. C. Plants new to Indiana I-XX. *In Proc. Indiana Acad. Sci.* 1904-06, 1909, 1911, 1914-16, 1918, 1920-23, 35 (1925), 37 (1927), 39 (1929)-44 (1934), *passim*. 1905-35. Title varies.

Deam, C. C. Flora of Indiana: on the distribution of the ferns, fern allies and flowering plants. *Proc. Indiana Acad. Sci.* 34: 39-53. 1925.

Summary of floral investigations; topography, climate, life zones, botanical habitats, bibliography. Total flora (vascular plants) 1,980 species.

— Shrubs of Indiana. 2d ed. Pub. Dept. Conserv. Indiana 44. 380 p. (incl. 153 pl., maps). 1932. (1st ed., 1924.)

Annotated descriptive flora of shrubby plants; list of excluded species.

— Trees of Indiana. 2d rev. ed. Pub. Dept. Conserv. Indiana 13. 326 p. (incl. 140 pl., maps). 1932. (Other eds., 1912, 1918, 1919, 1921.)

Descriptive flora, with keys; list of excluded species; tables of measurements of large trees and of specific gravity of woods.

McDonald, E. S., *sister*. The life-forms of the flowering plants of Indiana. *Amer. Midl. Nat.* 18: 687-773 (incl. 7 pl.). 1937.

Includes systematic list of 2,109 species of spermatophytes of the State, furnished by C. C. Deam, with ecological annotations by symbols, but no data on distribution.

Local

Baird, J. F., and Taylor, J. L. Catalogue of phaenogamous and vascular cryptogamous plants of Clark County, Indiana. *In Manual of the public schools of Clark County, Ind., for 1878-79.* p. 46-65. 1878.

List of vascular plants, with flowering dates.

Barnes, C. R. Catalogue of phaenogamous and vascular cryptogamous plants found growing wild in Jefferson County, Indiana . . . To which is added a list of plants growing in Clark County, but not found in Jefferson. By J. F. Baird. 9 p. 24 cm. Madison, 1878.—Addenda. *Bot. Gaz.* 3: 13. 1878.

Unannotated list of vascular plants.

Blatchley, W. S. A catalogue of the uncultivated ferns and fern allies (Pteridophyta) and the flowering plants (Spermatophyta) of Vigo County, Indiana. *Ann. Rpt. Indiana Dept. Geol. and Nat. Res.* 21: 577-708. 1897.

Topography, soils, etc.; annotated list of 853 vascular plants.

Bradner, E. A partial catalogue of the flora of Steuben County. *Ann. Rpt. Indiana Dept. Geol. and Nat. Res.* 17 (1891): 135-159. 1892.

Partly annotated list of 729 vascular plants.

Clark, H. W. Flora of Eagle Lake and vicinity. *Proc. Indiana Acad. Sci.* 1901: 128-192. 7 fig. 1902.

Physiography, general features of flora, plant formations; annotated list of 578 vascular plants. Eagle or Winona Lake is in Kosciusko County.

Coulter, J. M. A partial list of the flora of Jefferson County, Indiana. *Ann. Rpt. Geol. Survey Indiana* 6 (1874): 230-277. 1875.—Some plants new to Jefferson County. *Bot. Bul. (i. e. Bot. Gaz.)* 1: 34-35. 1876.

Annotated list of 721 plants, nearly all vascular.

Erlanson, E. W. List of Indiana plants, chiefly from Putnam County, collected 1910-1915 by Earl J. Grimes. *Proc. Indiana Acad. Sci.* 33 (1923): 123-162. 1924.

List of vascular plants, with data.

Evermann, B. W., and Clark, H. W. The flora of Lake Maxinkuckee and vicinity. *In* their *Lake Maxinkuckee* . . . Pub. Dept. Conserv. Indiana no. 7, v. 2, p. 117-447. 1920.

Aquatic flora, land flora, etc.; annotated lists of algae, aquatic plants, and vascular plants (838 species). (Marshall County.)

Heimlich, L. F. Native plants of White County III-VI. *Proc. Indiana Acad. Sci.* 1920: 219-224. 1921; 1921: 117-119. 1922; 1922: 281-289. 4 fig. 1923; 1923 (v. 33): 225-231. 5 fig. 1924.

Partly annotated list of 440 vascular plants. Titles vary slightly. The first two papers of the series were his *The primrose-leaved violet in White County*. l. c. 1914: 213-217. 1915.—*The trees of White County, Indiana*, with some reference to those of the State. l. c. 1917: 387-471. 32 fig. (incl. maps). 1918.

Lyon, M. W., jr. List of flowering plants and ferns in the Dunes State Park and vicinity, Porter County, Indiana. *Amer. Midl. Nat.* 10: 245-295. 1927.—*Supplement*. l. c. 12: 33-43. 1930.

Habitats, brief bibliography: annotated list of 825 species and varieties of vascular plants (including supplement).

McDonald, E. S., *sister*. The ferns and the flowering plants of Saint Joseph County, Indiana. *Amer. Midl. Nat.* 15: 203-240. 1 fig. (map). 1934.

List of vascular plants, with localities; bibliography.

Meyncke, O. M. The flora of Franklin County . . . *Bul. Brookville [Ind.] Soc. Nat. Hist.* 1: 13-38. 1885; 2: 45-49. 1886.

Annotated list of spermatophytes.

Peattie, D. C. Flora of the Indiana dunes. A handbook of the flowering plants and ferns of the Lake Michigan coast of Indiana and of the Calumet district. 432 p. 38 fig., map. 19.5 cm. Chicago, 1930.

Annotated descriptive flora of over 1,300 vascular plants, with keys. (*In* Lake, Porter, and La Porte Counties.)—See also Buhl, C. A. Notes on the flora of the Indiana dunes. *Amer. Midl. Nat.* 16: 248-253. 1935.

Phinney, A. J. Catalogue of the flora of central-eastern Indiana. (Alpine, or elevated, district of the State.) *Ann. Rpt. Indiana Dept. Geol. and Nat. Hist.* 12: 196-236. 1883.

General features of flora; annotated list of 789 vascular plants from Delaware, Wayne, Randolph, and Jay Counties, mostly (720) from Delaware County.

Price, Gladys, and Welch, W. H. Enumeration of the vascular flora of a limestone area of the Bloomington quadrangle, Monroe County, Indiana. *Proc. Indiana Acad. Sci.* 39 (1929): 127-131. 1930.

Unannotated list of 399 species and varieties of vascular plants in an area of 4 square miles northeast of Bloomington.

Schneck, Jacob. Catalogue of the flora of the Wabash Valley below the mouth of White River, and observations thereon. *Ann. Rpt. Geol. Survey Indiana* 7 (1875): 504-579. 1876.

Topography, general features of flora, measurements of large trees; annotated list of 867 vascular plants and Characeae. The region covered is in Gibson and Posey Counties, Ind., and Wabash, Edwards, White, and Gallatin Counties, Ill.—For additions, see the author's *Some plants of the lower Wabash*. *Bot. Gaz.* 2: 83. 1877.—Also Deam, C. C. Additions . . . *Proc. Indiana Acad. Sci.* 1911: 365-369. 1912.

Smith, C. P. Report upon a botanical survey of the Indiana State forest reservation. *Ann. Rpt. State Bd. Forestry Indiana* 3: 73-[161] (incl. 45 pl.). map. 1904.

Soil, etc.; annotated lists of trees and of other vascular plants. (Clark County.)

Van Gorder, W. B. Flora of Noble County. Ann. Rpt. Dept. Geol. and Nat. Res. Indiana 18 (1893): 33-71. 1894.
Annotated list of 724 vascular plants.

Welch, W. H. Enumeration of the vascular flora of Jasper County, Indiana. Proc. Indiana Acad. Sci. 36: 213-220. 1927.—Additions . . . I-II. l. c. 40: 119-121. 1931; 45: 77. 1936.

Unannotated list of 662 species and varieties.

Wilson, Guy. Flora of Hamilton and Marion Counties, Indiana. Proc. Indiana Acad. Sci. 1894: 156-176. 1895.

Annotated list of cellular and vascular plants.—See also Douglass, B. W. Additions to the flora of Marion County . . . l. c. 1904: 223-224. 1905.

Young, A. H. Manual of the botany of Jefferson Co. Rpt. Geol. Survey Indiana 2: 241-292. 1871.—Notes on some interesting plants found in Jefferson County. Bot. Bul. (i. e. Bot. Gaz.) 1: 6-8. 1875.

Annotated list of 609 angiosperms; medicinal uses indicated.

IOWA

See also Minnesota (MacMillan); Wisconsin (Smith, Ethnobotany of the Meskwaki Indians).

General

Bode, I. T., and MacDonald, G. B. A handbook of the native trees of Iowa. 95 p. illus. 19 cm. Ames, [1928?].

Annotated descriptive list, with figure of each species; popular treatment.

Cratty, R. I. The immigrant flora of Iowa. Iowa State Col. Jour. Sci. 3: 247-269. 1929.—Notes on the immigrant flora . . . I. l. c. 8: 309-311. 1934.

Annotated list of 263 vascular plants, with date of first record.

—— The Iowa flora. An annotated list of the ferns, fern allies and the native and introduced flowering plants of the State represented in the Iowa State College herbarium. Iowa State Col. Jour. Sci. 7: 177-252. 1933.

Annotated list of 1,608 vascular plants, of which 1,263 are native.

Fitzpatrick, T. J. Manual of the flowering plants of Iowa. 2 pts. (143 p.) 22.5 cm. [Lamoni, Iowa,] 1899.

Descriptive flora; distribution given in some detail. Pt. 1, Polypetalae; pt. 2, Gamopetalae; no more published.

Greene, Wesley. Plants of Iowa. A preliminary list of the native and introduced plants of the State, not under cultivation. 264 p. 22.5 cm. Des Moines, 1907. (Bulletin of the State Horticultural Society.)

Annotated list of 3,115 species, of which about 1,600 are vascular plants.

Macbride, T. H. Twenty-five years of botany in Iowa. Proc. Iowa Acad. Sci. 19: 43-63. 1912. (Reprinted and rev. 1914.)

Sketch of botanical work; unannotated bibliography for 1888-1912.

Pammel, L. H. A century of botany in Iowa. Proc. Iowa Acad. Sci. 31 (1924): 45-68. [1925?]

Biological organizations, explorations, running account of botanical activities in various fields.

—— Native shrubs of Iowa. Rpt. Iowa State Hort. Soc. 49: 34-43. 2 pl. 1915.

Annotated list.

—— and Fogel, E. D. A catalogue of the poisonous plants of Iowa. Proc. Iowa Acad. Sci. 14: 147-176 (incl. 4 maps). 1907.

Bibliography; annotated systematic list of 275 plants.

—— King, C. M., and others. The weed flora of Iowa. rev. ed. Iowa Geol. Survey Bul. no. 4. vi, 715 p. 512 fig. 1926. (1st ed. 1913.)

Systematic list, with brief descriptions, range, and method of treatment; chapters on seed characters, weed migrations, etc.; bibliography.

Rauch, J. H. Report [on the medical and economical botany of Iowa]. Proc. Iowa State Med. and Chirurg. Soc. 2: 11-52. 1851.

Annotated list of medicinal and other useful plants of Iowa.

Local

Barnes, W. D., Reppert, Fred, and Miller, A. A. The flora of Scott and Muscatine Counties. *Proc. Davenport Acad. Sci.* 8: 199-237 (incl. 2 pl.). 1901.

Annotated list of 1,068 vascular plants.

Boot, D. H. Plant studies in Lyon County, Iowa. *Proc. Iowa Acad. Sci.* 24 (1917): 393-414 (incl. fig. 80, pl. 11-12). [1918?]

Mainly ecological; includes tabular list of 162 vascular plants.

Burk, M. M. J. Flowering plants of Black Hawk County, Iowa. *Proc. Iowa Acad. Sci.* 38 (1931): 135-149. [1932?]

General features of flora; unannotated list of angiosperms.

Conard, H. S. Plants of central Iowa, being a third edition of the Grinnell flora . . . 99 p. illus. 22 cm. Grinnell, [1929?] (1st ed. [1923], 2d ed. [1925].)

Unannotated flora in form of keys, without authorities for the botanical names. A 5th ed., 1939 (not seen), has title: Plants of Iowa.

Diehl, W. W. The flora of The Ledges region of Boone County, Iowa. *Proc. Iowa Acad. Sci.* 22: 77-104. pl. 18-19. 1915. (Reprinted as *Contrib. Bot. Dept. Iowa State Col.* no. 61.)

Ecology; annotated list of vascular plants; bibliography.

Fink, Bruce. Spermatophyta of the flora of Fayette, Iowa. *Proc. Iowa Acad. Sci.* 4: 81-107. 1897.

Topography; annotated list of over 700 seed plants from within 5 miles of Fayette, Fayette County.

Fitzpatrick, T. J. Forest trees and shrubs of Decatur County. In Bain, H. F. *Geology of Decatur County. Ann. Rpt. Iowa Geol. Survey* 8: 309-314. 1898.

Annotated list.

Notes on the flora of northeastern Iowa. *Proc. Iowa Acad. Sci.* 5: 107-133. 1898.

Annotated list of vascular plants and a few cellular plants collected by the author in Winneshiek, Allamakee, Clayton, Dubuque, Jackson, Clinton, and Scott Counties in 1895, with localities.

and Fitzpatrick, M. F. L. Flora of southern Iowa. *Proc. Iowa Acad. Sci.* 5: 134-173. 1898; 6: 173-202. 1899.

Annotated list of vascular plants and a few cellular plants, mostly collected by the authors, with localities.—See also Anderson, J. P. Plants new to the flora of Decatur County, Iowa. *l. c.* 12: 133-138. 1905.—Also his *Additions . . . Iowa Nat.* 2: 7-8. 1906.

Fults, J. L. A botanical survey of Lee County, Iowa. *Iowa State Col. Jour. Sci.* 8: 251-293. 1934.

Physiography, climate, soils, botanical explorations; annotated list of about 645 vascular plants.

Geiser, S. W. The flowering plants of a typical locality in northeastern Iowa. 19 p. 23 cm. Fayette, Iowa, 1918. (Bulletin of the Upper Iowa University, v. 20, no. 5, Biol. Ser. no. 2.)

List of spermatophytes of region around Fayette, with annotative information conveyed by a number system. (Fayette County.)

Gow, J. E. Preliminary list of the flowering plants of Adair County. *Proc. Iowa Acad. Sci.* 8: 152-159. 1901. (Reprinted in *Ann. Rpt. Iowa Geol. Survey* 27: 336-344. [1917?].)

Partly annotated list of phanerogams.—See also his *Forest trees of Adair County, Iowa. Proc. Iowa Acad. Sci.* 6: 56-63. map. 1899.

Hitchcock, A. S. A catalogue of the Anthophyta and Pteridophyta of Ames, Iowa. *Trans. Acad. Sci. St. Louis* 5: 477-532. 1891.

Topography, etc.; annotated list of vascular plants.—See also Lindly, J. M. *Flowers of Story County. Trans. Illinois State Acad. Sci.* 18: 19-24. 1911. (Refers almost entirely to Ames.) (Story County.)

McDonald, Malcolm. The woody plants of southeastern Iowa. *Proc. Iowa Acad. Sci.* 44 (1937): 65-74. [1938?]

Tabular list of 168 species and varieties, showing distribution by counties; bibliography.

Mueller, H. A. A preliminary list of the flowering plants of Madison County. *Proc. Iowa Acad. Sci.* 11: 261-279. 1904.

Topography; annotated list of spermatophytes, except grasses and sedges.

Nagel, J. J., and Haupt, J. G. List of phaenogamous plants, collected in the vicinity of Davenport, Iowa . . . during the years 1870 to 1875, inclusive. *Proc. Davenport Acad. Nat. Sci.* 1: 153-164. 1876.

List of spermatophytes, with flowering dates. (Scott County.)

Oleson, O. M., and Somes, M. P. A flora of Webster County, Iowa. *Proc. Iowa Acad. Sci.* 13: 25-58. 1906.

Topography, geology; annotated list of 852 vascular plants.

Pammel, L. H. Flora of northern Iowa peat bogs. *Ann. Rpt. Iowa Geol. Survey* 19: 735-777. fig. 106-117. 1909. (Reprinted as *Contrib. Bot. Dept. Iowa State Col.* no. 40.)

General botanical features of peat bogs; tabular list of cellular and vascular plants of peat bogs in Iowa, Wisconsin, Michigan, and Virginia; bibliography.

—— The flora of Pine Hollow, Dubuque County, Iowa. *Proc. Iowa Acad. Sci.* 30 (1923): 263-277. 14 fig. [1924?]

General features of flora; unannotated list of vascular plants.

—— MacDonald, G. B., and Clark, H. B. The native and cultivated forest trees and shrubs of the Missouri River basin. *Proc. Iowa Acad. Sci.* 22: 23-56. pl. 4-15. 1915.

Bibliography, topography, economic uses, distribution, etc.; annotated list with localities. Covers principally the area between Sioux City and Hamburg.

Peck, M. E. The flowering plants of Hardin County. *Proc. Iowa Acad. Sci.* 12: 193-241. 1905.

Annotated list of 704 spermatophytes.

Rigg, G. B. Notes on the flora of Calhoun County, Iowa. 37, [3] p. map. 19.5 cm. Iowa City, 1896.

Physiography; annotated list of 173 vascular plants; lists of species grouped by habitats.

Schadt, Conrad. Flora of Iowa County. *Ann. Rpt. Iowa Geol. Survey* 20: 186-198. 1910.

Unannotated list of vascular plants.

Shimek, Bohumil. The botanical manuals and the Iowa flora. *Univ. Iowa Studies Nat. Hist.* 14 (2): 17-37. 1931.

Corrections in habitats and ranges, as relating to Iowa plants, in Gray's Manual and Britton's Manual.

—— Botanical report. The prairies. In his *Geology of Harrison and Monona Counties*. *Ann. Rpt. Iowa Geol. Survey* 20: 426-483 (incl. pl. 33-41). 1910.

General features of prairie flora, etc.; alphabetical lists of vascular plants, ecologically arranged; climate, etc.; annotated list of weeds.

—— Early Iowa locality records. *Proc. Iowa Acad. Sci.* 22: 105-119. 1915 (1916).

Discussion of important localities in earlier publications, particularly Council Bluffs.

—— The flora of Lyon County. *Ann. Rpt. Iowa Geol. Survey* 10: 157-184. 1900.—Addenda . . . *Bul. Lab. Nat. Hist. Univ. Iowa* 5: 215-216. 1901.

Soil, general features of flora; annotated list of vascular plants, ecologically divided.

—— The plant geography of the Lake Okoboji region. *Bul. Lab. Nat. Hist. Univ. Iowa* v. 7, no. 2. 90 p. 1 fig. (map), 8 pl., map. 1915.—Additional notes. *I. c.* v. 7, no. 3 bis, p. 3-5. 1917.

Includes tabular list of vascular and cellular plants. (Dickinson County.)

—— The plants of Winneshiek County. *Ann. Rpt. Iowa Geol. Survey* 16: 147-211. 1906. (Reprinted with title: *Flora of Winneshiek County*.)

Collectors, etc.; annotated list of vascular plants; bibliographical footnotes.

—— The prairies. *Bul. Lab. Nat. Hist. Univ. Iowa* 6 (2): 169-240. 13 pl., map. 1911.

Mainly ecological; includes alphabetical list of typical prairie plants of Iowa, with indication of ecological habitat; bibliography. The list of prairie plants is nearly the same as that in his Botanical report. The prairies. 1910.

—— The sand-flora of Iowa. *Bul. Lab. Nat. Hist. Univ. Iowa* 7 (3, i. e. 4): 6-24. 5 pl. 1917.

Ecology; tabular list of vascular plants, with habitat indicated.

Somes, M. P. Notes on the flora of Johnson County, Iowa. *Proc. Iowa Acad. Sci.* 20: 27-101. 1913.

Topography; annotated list of 1,005 vascular plants.

Tolstead, W. L. A flora of Winneshiek and Allamakee Counties and Clayton County in the vicinity of McGregor. *Iowa State Col. Jour. Sci.* 12: 321-384. 2 pl. 1938.

Physiography, geology, soils, climate, botanical explorations; annotated list of bryophytes and vascular plants; plant formations, bibliography.

Tuttle, F. M. Flora of Mitchell County. *Proc. Iowa Acad. Sci.* 26 (1919): 269-299. fig. 92-95. [1920?]

General features of flora; annotated list of vascular plants.

Verink, E. D. A preliminary report on the flora of Linn County. *Proc. Iowa Acad. Sci.* 21: 77-99. 1914.

Annotated list of vascular plants, the families arranged alphabetically.

Wolden, B. O. The plants of Emmet County, Iowa. *Proc. Iowa Acad. Sci.* 39 (1932): 89-132. [1933?]

General features of region, bibliography; annotated list of 930 species and varieties of vascular plants. Replaces Cratty, R. I. Flora of Emmet County, Iowa. *Proc. Iowa Acad. Sci.* 11: 201-251. 1904; *Iowa Nat.* 1: 36-38. 1905.

KANSAS

Genera

Gates, F. C. Handbook of Kansas trees. *Rpt. Kansas State Bd. Agr.* 47 (186-A: Trees in Kansas): 148-372. fig. 117-209. 1928.

Descriptive flora of native and principal cultivated species; each species illustrated by figures of the leaves, fruit, and details; bibliography; keys.

——— Principal poisonous plants in Kansas. *Tech. Bul. Kansas Agr. Expt. Sta.* 25. 67 p. 64 fig. 1930.

General considerations; annotated systematic list of poisonous vascular plants.

——— Woody plants, native and naturalized in Kansas. *Trans. Kansas Acad. Sci.* 41: 99-118 (incl. maps). 1938.

Briefly annotated list of 208 trees, shrubs, and woody vines, with the range of each species shown on a small map of the State.

Hitchcock, A. S. Flora of Kansas. A series of maps illustrating the distribution of flowering plants by counties . . . Maps prepared by J. B. Norton and J. M. Westgate. 21. 20 (1. e. 22) maps. 23 cm. Manhattan, 1899. (Partly reprinted from *Industrialist*, v. 24, 1898.)

Consists of a foreword and about 1,350 tiny maps showing distribution of each vascular plant by counties.

Kellerman, W. A., and Kellerman, S. D. Kansas school botany consisting of the analytical flora of Kansas, to which is prefixed an introductory botany and glossary. 58, 197 p. 109 fig. 19 cm. Manhattan, 1888.

Keys to all vascular plants with brief descriptions, unannotated. The illustrations belong to introductory botany.

Smyth, B. B. Check list of the plants of Kansas. 2d ed. 36 p. 23.5 cm. Topeka, 1892 (1893). (1st ed., 1892.)

List of 2,037 plants (of which 1,933 are vascular), with local distribution indicated by districts. The 2d ed. is merely the first ed., with additions on p. 34-36, dated Mar. 1893.

——— Preliminary list of medicinal and economic Kansas plants, with their reputed therapeutic value. *Trans. Kansas Acad. Sci.* 18: 191-209. 23 fig. 1903.

Very briefly annotated list of 307 plants, alphabetically arranged.

——— and Smyth, L. C. B. Catalogue of the flora of Kansas I-II. *Trans. Kansas Acad. Sci.* 23/24: 273-295. 1911; 25: 63-128. 1913.

Annotated list of plants from Bryophyta through Monocotyledones (Engler and Prantl system); 800 species, of which 668 are vascular; includes cultivated plants. Never completed.

Welch, J. M. The medical flora of Kansas; or the medicinal plants indigenous in that State. *Trans. Natl. Eclect. Med. Assoc.* 10: 458-472. 1883.

Annotated list.

Local

Anderson, J. P. Annotated list of plants collected in Greeley and Wallace Counties, Kansas. *Iowa Nat.* 3: 2-20. 1917. (Reprinted.)

Topography; annotated list of 226 vascular plants.

Castle, W. E. A list of flowering plants and ferns. Collected in Franklin County, Kansas, during the months of April, May, September, and October, 1890-92. *Trans. Kansas Acad. Sci.* 13: 80-89. 1893.

List of 452 vascular plants collected by author in vicinity of Ottawa.

Doell, J. H. The flora of the sand hills of Harvey County, Kansas. *Kansas Univ. Sci. Bul.* 25: 113-147 (incl. 4 fig., pl. 13-18). 1938 [1939].

Ecological; includes unannotated list of vascular plants; bibliography.

Fraser, S. V. The flora of Cloud County. *Trans. Kansas Acad. Sci.* 34: 220-230. [1931].

General features of flora; unannotated list of slightly over 600 vascular plants.

Hancin, John. Flora of Saline County: ferns and flowering plants. *Trans. Kansas Acad. Sci.* 42: 139-149. 1939.

Soil, effects of cultivation on flora, etc.; essentially unannotated list of vascular plants.

Harnly, H. J. A provisional list of the flowering plants of McPherson County. *Trans. Kansas Acad. Sci.* 15: 75-78. 1898.

Unannotated list of 183 angiosperms.

Maus, P. M. Flora of Wabaunsee County, Kansas. *Trans. Kansas Acad. Sci.* 32: 88-104. [1930?]

Topography, general features of flora; annotated list of 495 vascular plants, the families arranged alphabetically.

Neher, S. J. The flora of Osborne County, Kansas. *Trans. Kansas Acad. Sci.* 37: 77-82. 1934.

Physiography, general features of flora; unannotated list of vascular plants, the families arranged alphabetically.

Ross, Bennington, and Hall, H. H. A preliminary survey of the flora of Crawford County State Park, Kansas. *Trans. Kansas Acad. Sci.* 42: 157-164 (incl. map). 1939.

Geology, soil, topography, climate; annotated tabular list of spermatophytes. (Near Pittsburg.)

Stevens, O. A. Plants of Manhattan and Blue Rapids, Kansas, with dates of flowering. *Amer. Midl. Nat.* 5: 71-87, 98-112, 113-129, 201-204. 1917.

Annotated list of vascular plants. The localities are in Riley and Marshall Counties, respectively.

Stieferman, M. A., *sister*. The seed plants of Sedgwick County, Kansas. *Trans. Kansas Acad. Sci.* 42: 179-195 (incl. map). 1939.

Soil, topography, etc.; unannotated list of angiosperms.

Weber, Clement. The flora of Clay County, Kansas. *Trans. Kansas Acad. Sci.* 33: 87-106. [1931].

History; mostly unannotated list of about 600 vascular plants.

—— The flora of Sheridan County, Kansas. *Trans. Kansas Acad. Sci.* 35: 161-178. [1932].

Physiography, etc.; unannotated list of 476 vascular plants.

—— Plants that grow in Ellsworth County. *Trans. Kansas Acad. Sci.* 32: 68-79. [1930?].

Topography, soil, etc.; unannotated list of 443 vascular plants.

KENTUCKY

See also Ohio (Braun).

General

Frazee, L. J. Report on the indigenous botany of Kentucky. *Proc. Kentucky State Med. Soc.* 14: 47-62. 1869.

Sketch of botanical explorations and publications; unannotated alphabetical list of medicinal plants.

Garman, Harrison. The woody plants of Kentucky. Bul. Kentucky Agr. Expt. Sta. 169. 62 p. 20 fig. (in text and on 10 pl., incl. 2 ports.). 1913.
Annotated list, the local distribution given in detail.

Spilman, C. H. Catalogue of Kentucky plants. Trans. Kentucky State Med. Soc. 1852: 306-318. 1853.

Unannotated alphabetical list of vascular plants.

Local

Greenwell, R. A., *sister*. A flora of Nelson County, Kentucky, with a selected list of economically important plants. Biol. Ser. Catholic Univ. Amer. no. 20. xiv, 204 p. 1935.

Topography, geology, botanical explorations; annotated list of 863 vascular plants, with keys.

Hussey, John. Report on the botany of Barren and Edmonson Counties. Rpt. Prog. Geol. Survey Kentucky II, v. 1, pt. 2. 32 p. 1876. (Reprinted in Geological survey of Kentucky. Timber and botany, B. [no. 2]. 1884.)

Unannotated list of vascular plants.

Kearney, T. H. Notes on the flora of southeastern Kentucky, with a list of plants collected in Harlan and Bell Counties in 1893. Bul. Torrey Club 20: 474-485. 1893. (Reprinted as Contrib. Herb. Columbia Col. no. 43.)

Rarer plants of special localities; unannotated list of vascular plants collected.

Linney, W. M. Report on the botany of Madison, Lincoln, Garrard, Washington, and Marion Counties, Kentucky. 57 p. 26.5 cm. Frankfort, Ky. [1882]. (Publication of Geological survey of Kentucky.)

Unannotated list of 682 vascular plants.

— Report on the timbers of Boyle and Mercer Counties. Rpt. Prog. Geol. Survey Kentucky II, v. 5, pt. 11. 36 p. 1880.

Includes list of vascular plants.

Nelson, J. C. Plants of Boone County, Kentucky. Proc. Indiana Acad. Sci. 1918: 125-143. 1919.

Annotated list of vascular plants.

Price, S. F. Flora of Warren County, Kentucky. 31 p. 20 cm. New London, Wis., 1893.

Unannotated list of 714 vascular plants. The United States Department of Agriculture copy contains numerous corrections and additions in Miss Price's hand.

LOUISIANA

General

Cocks, R. S. A list of the shrubs of Louisiana. Jour. Arnold Arboretum 3: 173-182. 1922.

Annotated list, with flowering and fruiting dates.

— A list of the trees of Louisiana. Jour. Arnold Arboretum 2: 204-216. 1921.

Annotated list; dimensions of various large trees.

Hale, Josiah. Report on the medical botany of the State of Louisiana. New Orleans Med. and Surg. Jour. 9: 152-173, 287-313. 1852-53.

Annotated systematic list.

Riddell, J. L. Catalogus florae ludoviciana. New Orleans Med. and Surg. Jour. 8: 743-764. 1852. (Reprinted.)

Unannotated list of vascular plants based on studies of J. L. Riddell, Josiah Hale, and W. M. Carpenter. Refers to a much more extensive "Plants of Louisiana" sent by the author to the Smithsonian Institution in 1851, but never published.

Local

Brown, C. A. Plants observed on an excursion to Grand Isle, Louisiana. Bul. Torrey Club 57: 509-513. 1 fig. (map). 1930.

General features of flora; list of vascular plants, alphabetically arranged under three habitat groups. (Jefferson Parish.)

Cocks, R. S. The flora of the Gulf Biologic Station. Bul. Gulf Biol. Sta. Cameron, La. no. 7. 42 p. 1907.

History of botanical work in Louisiana; annotated list of plants collected near Cameron, Cameron Parish; notes on rare plants from prairie region of southwestern Louisiana.

Dodson, W. R. The principal plants of economic value in the Florida parishes and southwest Louisiana. In Clendenin, W. W. A preliminary report upon the Florida parishes of east Louisiana . . . Geol. and Agr. State Exp. Sta. [Louisiana] pt. 3. p. 249-256. [1896.]

Systematic list, classified by uses, mostly unannotated.

Featherman, Americus. Report of botanical survey of southern and central Louisiana, made during the year 1870. 131 p. 23 cm. New Orleans, 1871.

Contains (p. 77-129) a list of cellular and vascular plants, with localities.

— Third annual report of botanical survey of southwest and northwest Louisiana made during the year 1871. Ann. Rpt. Louisiana State Univ. 1871: 101-161. 1872.

Geology, general botanical features, author's itineraries, economic plants, etc.; list of vascular and cellular plants, with localities, under title *Flora ludoviciana* (p. 143-160).

Langlois, A. B. Catalogue provisoire de plantes phanérogames et cryptogames de la Basse-Louisiane, États-Unis d'Amérique. 35 p. 24 cm. Saint-Étienne, [1887].

Unannotated list of 1,214 vascular plants, also cellular plants. Refers particularly to Plaquemines Parish.

Lindly, J. M. Some of the flowering plants of Calcasieu Parish, Louisiana. Proc. Iowa Acad. Sci. 13: 161-166. 1906.

List of seed plants observed by author in the town of Welsh in winter of 1893-94, the families arranged alphabetically. (Jefferson Davis Parish.)

Lloyd, F. E., and Tracy, S. M. The insular flora of Mississippi and Louisiana. Bul. Torrey Club 28: 61-101. pl. 8-11. 1901. (Reprinted as Contrib. Dept. Bot. Columbia Univ. no. 174.)

Climate, physiography, plant formations; annotated list of vascular plants of Mississippi Sound islands and delta; bibliography.

MAINE

General

Fernald, M. L. The Portland catalogue of Maine plants. 2d ed. Proc. Portland Soc. Nat. Hist. 2: 41-72. 1892. (Reprinted.)—[1st]-2d supplement . . . l. c. 2: 73-96, 123-137. 1895-97. (1st ed., by G. L. Goodale and Joseph Blake, 1868.)

List of 1,410 species of vascular plants, with occasional notations (by signs) concerning distribution. The supplements contain many additional species, with annotations.

Maine forest service. Forest trees of Maine. [6th ed.] rev. by H. B. Peirson. 86 p. illus. 23.5 cm. Augusta, 1938. (1st ed., 1907.)

Annotated descriptive list, with illustration of nearly every species.

Perkins, A. E. Common plants as domestic remedies in Maine. Torreyia 30: 63-68. 1930.

Running account of native medicinal plants.

Scribner, F. L. Ornamental and useful plants of Maine. Ann. Rpt. Maine Bd. Agr. 19: 157-237. illus., 2 pl. 1874. (Reprinted 1875.)

Annotated systematic list, including medicinal plants.

Local

Chamberlain, E. B. List of plants [in the vicinity of Oxford]. Bul. Josselyn Bot. Soc. Maine 1: 15-23. 1907.

Tabular list of vascular plants collected in Oxford, Otisfield, and Norway in July 1907 by members of the Josselyn Botanical Society. (Oxford and Cumberland Counties.)

Coburn, L. H. Flora of Birch Island in Attean Pond. *Rhodora* 22: 129-138. 1920.

Geology, general features of flora; list of 255 vascular plants, divided according to habitat. Attean Pond is one of the Moose River chain of lakes in northern Somerset County.

Cook, M. P. A list of plants seen on the island of Monhegan, Maine, June 20-25, 1900. *Rhodora* 3: 187-190. 1901.

Unannotated list of vascular plants. (Lincoln County.)

Fassett, N. C. The Hypocrites. *Maine Nat.* 2: 141-143. 1922.

Geology, topography; annotated list of 27 vascular plants. (Three small islands off the coast of Boothbay, Lincoln County.)

Fernald, M. L. The vascular plants of Mount Katahdin. *Rhodora* 3: 166-177. pl. 32. 1901.

Botanical explorations; annotated list of vascular plants.—See also Stebbins, G. L. Some interesting plants . . . l. c. 31: 142-143. 1929.—Ewer, S. J. Notes on Katahdin plants. l. c. 32: 259-261. 1930.—Norton, A. H. Plants apparently new . . . l. c. 37: 455. 1934. (Piscataquis and Penobscot Counties.)

Graves, A. H. Woody plants of Brooklin, Maine. *Rhodora* 12: 173-184. 1 fig. (map). 1910.

Annotated list of 100 species and varieties. (Hancock County.)

Harvey, L. H. The floristic composition of the vascular flora of Mount Katahdin, Maine. *Rpt. Mich. Acad. Sci.* 11: 37-47. 1909.

Phytogeographic; includes tabular list of 120 arctic-alpine species; bibliography.

Hill, A. F. The vascular flora of the eastern Penobscot Bay region, Maine. *Proc. Portland Soc. Nat. Hist.* 3: 199-304. 4 fig. (maps), map. 1919.

Topography, geology, etc.; annotated list of 747 vascular plants; phytogeography. (Townships of Brooklin, Deer Isle, Stonington, and Swan Island in Hancock County, and Isle au Haut, Knox County.)

Jewell, H. W. Franklin County flora. Pt. 1 (15 p.). 19.5 cm. Farmington, Maine, 1898.

Annotated list of 223 vascular plants, arranged in order of flowering.

Knowlton, C. H. Flora of Mt. Saddleback, Franklin County, Maine. *Rhodora* 5: 35-38. 1903.

Geology; partly annotated list of vascular plants.

Plants and plant societies at Roque Bluffs, Maine. *Rhodora* 17: 145-155. 1915.

Geology, etc.; lists of vascular plants, divided according to habitat; bibliography. (Washington County.)

McAtee, W. L. Plants collected on Matinicus Island, Maine, in late fall, 1915. *Rhodora* 18: 29-45. 1916.

General features of flora; annotated list of 217 vascular plants; bibliography. Matinicus Island is 18 miles offshore from Rockland, in Knox County.

Morrell, J. M. H. Some Maine plants and their uses, "wise and otherwise." *Rhodora* 3: 129-132. 1901.

Annotated list consisting mostly of edible and medicinal plants.

Ogden, E. C. The herbaceous flowering plants (exclusive of grasses and sedges) growing without cultivation in the vicinity of Orono, Maine. *Univ. Maine Studies* II, 34. 77 p. illus. (map). 1935. (Maine Bul. v. 37, no. 8.)

Botanical explorations, topography; annotated list of plants; bibliography. (Penobscot County.)

Rand, E. L., and Redfield, J. H. Flora of Mount Desert Island, Maine. A preliminary catalogue of the plants growing on Mount Desert and the adjacent islands. 286 p. map in pocket. 23 cm. Cambridge, 1894.

Geology (by W. M. Davis), etc.; annotated list of vascular and cellular plants (1,286 species, of which 716 are vascular).—See also Rand, E. L. Additions to the plants of Mount Desert Island. *Rhodora* 10: 145. 1908; Fellows, D. W., and others. Plant list. *Bul. Josselyn Bot. Soc. Maine* 2: 16-23. 1908 (list of vascular plants observed in 1908); Taylor, W. R. Additions . . . *Rhodora* 23: 65-68. 1921; Stebbins, G. L., jr. Further additions . . . l. c. 31: 81-87. pl. 185-186. 1929. (Hancock County.)

Redfield, J. H. Insular vegetation [Great Duck Island]. Bul. Torrey Club 12: 103. 1885; 20: 409-410. 1893.

List of vascular plants observed by the author in 1885 and 1893.—See also Rand, E. L. Plants from the Duck Islands, Maine. Rhodora 2: 207-209. 1900. (About 10 miles south of Mount Desert, in Hancock County.)

St. John, Harold. Plants of the headwaters of the St. John River, Maine. Res. Studies State Col. Washington 1: 28-58. 1 fig. (map), pl. 2-3. 1929.

Botanical explorations, geology, physiography; list of vascular plants, with localities and collectors (indicated by symbols), of the valley of the St. John River from near mouth of Allagash River to the headwaters. (Aroostook and Somerset Counties.)

MARYLAND

See also District of Columbia (Hitchcock and Standley).

General

Shreve, Forrest, Chrysler, M. A., Blodgett, F. H., and Besley, F. W. The plant life of Maryland. 533 p. 15 fig., 39 pl. (incl. map). 26 cm. Baltimore, 1910. (Maryland Weather Service. Special publication v. 3.)

Physiography, climatology, plant geography, ecology, etc.: annotated list of 1,400 species and varieties of vascular plants; bibliography (p. 94-97).

Local

Killip, E. P., and Blake, S. F. Flowering plants and ferns. (Natural history of Plummers Island, Maryland. II.) Proc. Biol. Soc. Washington 48: 118-134. 1935.

Mostly unannotated list of 720 species and 9 varieties of vascular plants. Plummers Island, in Montgomery County, is the property of the Washington Biologists' Field Club.

Redmond, P. J. A flora of Worcester County, Maryland. Contrib. Biol. Lab. Catholic Univ. Amer. no. 11. 104 p. 1932.

Physiography, geology, climate; annotated list of vascular plants, with keys.

Shriver, Howard. List of wild flowers and trees in vicinity of Cumberland, Maryland. With time of blooming, and locality, where found, and references to Gray's and Wood's botanies for descriptions. 38 p. 19.5 cm. Cumberland, 1901.

List of 848 vascular plants, with localities, arranged by flowering dates. (Allegany County.)

Sollers, Basil. Check list of plants, compiled for the vicinity of Baltimore. 72 p. 20 cm. Baltimore, 1888.

Unannotated list of vascular plants.

MASSACHUSETTS

General

Emerson, G. B. A report on the trees and shrubs growing naturally in the forests of Massachusetts. 2d ed. 2 v. 121 pl. 23.5 cm. Boston, 1875. (1st ed., 1846.)

Descriptive flora, with account of uses, etc. The so-called 3d-5th editions (3d, 1878, 4th, 1887, and 5th, 1894 and later dates) seem to be the same as the 2d ed.

Williams, S. W. Report on the indigenous medical botany of Massachusetts. Trans. Amer. Med. Assoc. 2: 863-927. 1849.

Annotated list of 319 species.

Local

Andrews, Luman. Catalogue of the flowering plants and ferns of Springfield, Massachusetts, growing without cultivation. Bul. Mus. Nat. Hist. Springfield no. 3. 221 p. (incl. 10 pl., map). 1924.

Annotated list of vascular plants.—See also Seymour, F. C. Additions to the flora of Springfield. Rhodora 29: 241-246. 1927. (Hampden County.)

Bicknell, E. P. The ferns and flowering plants of Nantucket. *Bul. Torrey Club* 35: 49-62, 181-201, 471-498. 1908; 36: 1-29, 441-456. 1909; 37: 51-72. 1910; 38: 103-133, 447-460. 1911; 39: 69-80, 415-428. 1912; 40: 605-624. 1913; 41: 71-87, 411-427. 1914; 42: 27-47, 331-349, 549-570. 1915; 43: 265-276. 1916; 44: 369-387. 1917; 45: 365-383. 1918; 46: 423-440. 1919.

Amplly annotated list of vascular plants, in 20 parts, the last two of which are supplements. Includes over 950 species. Replaces Owen, M. L. A catalogue of plants growing without cultivation in the county of Nantucket, Mass. 1888. (Nantucket County.)

Bouvé, T. T. The botany of Hingham. *In* History of the town of Hingham, Massachusetts. v. 1, p. 87-138. Cambridge, 1893.

Botanical explorations, etc.; unannotated list of vascular plants.—See also his The trees and shrubs of Hingham. l. c. 139-156. 3 pl.—Also Knowlton, C. H. Notes on the plants of Hingham, Massachusetts. *Rhodora* 26: 175-177. 1924. (Plymouth County.)

Churchill, J. R. List of trees and plants growing naturally in Milton, Mass. *In* Teele, A. K. The history of Milton, Mass., 1640-1887. p. 600-613. [Boston, 1888?] (Reprinted 16 p. [1888?])

Annotated list of plants. (Norfolk County.)

Cobb, N. A. A list of plants found growing wild within thirty miles of Amherst. 51 p. 24 cm. Northampton, Mass., 1887.

Unannotated list of vascular and cellular plants, with occasional localities. Replaces Tuckerman, Edward, and Frost, C. C. A catalogue of plants growing without cultivation within thirty miles of Amherst College. 1875.—For additions see Clark, H. L. Additions to the flora of Amherst . . . *Rhodora* 1: 164-165. 1899.—Harper, R. M. Further additions . . . l. c. 2: 68-70. 1900. (Hampshire County and much of Franklin, Hampden, and Worcester Counties.)

Dame, L. L., and Collins, F. S. Flora of Middlesex County, Massachusetts. 201 p. map. 23.5 cm. Malden, 1888.

Geology, etc.; collectors; annotated list of vascular (1,544 species and varieties) and cellular plants.—See also Cook, M. P. Some additions to the "Flora of Middlesex County . . ." *Rhodora* 1: 80-82. 1899.—Smith, E. C. Further additions . . . l. c. 1: 97-98. 1899.—Hosmer, A. W. Further additions . . . l. c. 1: 223-224. 1899.

Deane, Walter. Flora of the Blue Hills, Middlesex Fells, Stony Brook and Beaver Brook Reservations, of the Metropolitan Park Commission, Massachusetts. viii, 144 p. 22.5 cm. Boston, 1896.

Annotated list of vascular and cellular plants. The reservations are in Norfolk (Blue Hills), Middlesex (Middlesex Fells, Beaver Brook), and Suffolk (Stony Brook) Counties.—See also Clark, Arthur. A few plants of the Blue Hills Reservation. *Rhodora* 4: 74-76. 1902.

Fogg, J. M. The flora of the Elizabeth Islands, Massachusetts. *Rhodora* 32: 119-132, 147-161, 167-180, 208-221, 226-238, 263-281. 1 fig. (map). 1930. (Contrib. Gray Herb. no. 91.)

Geology, history, botanical explorations, topography, plant associations, changes in flora, origin of flora, phytogeography; annotated list of vascular plants (553 indigenous species). (Dukes County.)

Gardner, G. B. The Nantucket flora. *In* Douglas-Lithgow, R. A. Nantucket, a history. p. 245-268. New York, 1914.

General features of flora; unannotated compiled list of vascular plants. (Nantucket County.)

Goodale, A. S., compiler. A check list of Pteridophyta and Spermatophyta (fern-allies and seed-plants) occurring in the Connecticut River watershed in Massachusetts. 72, 5 p. 29 cm. Amherst, Mass., 1929.

Unannotated list of vascular plants occurring in Hampshire and parts of Franklin, Hampden, Worcester, and Berkshire Counties. (Processed publication.)

Hedge, C. E. Wild flowers of Plymouth and vicinity, 1804-1904. 46 p. 20.5 cm. Boston, 1904.

Unannotated list of vascular plants and a few fungi. (Plymouth County.)

Hervey, E. W. Flora of New Bedford and the shores of Buzzards Bay. rev. ed. 137 p. 23 cm. New Bedford, 1911. (1st ed., 1860: A catalogue of the plants . . .)

Unannotated list of vascular and cellular plants (1,524 species) preceded by a "Procession of the flowers," consisting of an annotated list of plants arranged in groups according to flowering dates. (Bristol County.)

Hill, E. S. Flora. In Green, S. A. The natural history and the topography of Groton, Massachusetts. [v. 1.] p. 1-26. Groton, 1912.

List of vascular plants, with localities and flowering dates; sedges and grasses omitted. (Middlesex County.)—See also Knowlton, C. H. Rare plants in Groton . . . *Rhodora* 14: 234-235. 1912.

Hoffmann, Ralph. Flora of Berkshire County, Massachusetts. Proc. Boston Soc. Nat. Hist. 36: 171-382. 1922.

History of botanical collecting, physiography, plant associations; annotated list of 1,656 vascular plants (1,377 species); lists of fugitive and excluded species.—See also Wallace, G. J. Some recent additions . . . *Rhodora* 41: 128-130. 1939.

Jackson, Joseph. A catalogue of the flowering plants and ferns of Worcester County, Massachusetts. 3d ed., rev. and enl. v, 102 p. 9 pl. 22 cm. Worcester, 1909. (1st ed., 1883; 2d ed., 1894, with title: Flora of Worcester County. A catalogue of the phaenogamous and vascular cryptogamous plants . . . [Also issued as Appendix A to his Through glade and mead.]—Additions . . . 49 p. Worcester, 1927.

Briefly annotated list of 1,661 species and varieties of vascular plants (including additions).—See also Potter, D., and Woodward, N. P. Notes on the flora of Worcester County, Massachusetts. *Rhodora* 37: 80-88. 1935.

Lewis, I. F. The flora of Penikese, fifty years after. *Rhodora* 26: 181-195, 211-219, 222-229. pl. 146-147. 1924-1925.

Contains (p. 219, 222-229) annotated list of vascular plants, with asterisk indicating those not recorded in D. S. Jordan's list (The flora of Penikese Island. Amer. Nat. 8: 193-197. 1874). Pteridophyta by Alma G. Stokely; Spermatophyta by John M. Fogg. (Dukes County.)

McAtee, W. L. The winter flora of Muskeget Island, Massachusetts. *Rhodora* 18: 93-99. 1916.

Topography, general features of flora; annotated list of 54 vascular plants. (Nantucket County.)

New England Botanical Club. Reports on the flora of the Boston district. In *Rhodora* v. 9-18, 20-26. 1907-16, 1918-24.

Annotated list of vascular plants (2,030 species, 421 varieties, forms, and hybrids, of which 1,242 species and 301 varieties and forms are native) of most of eastern Massachusetts (essentially the area from the New Hampshire line south to about 42° N. Lat. and west to eastern border of Worcester County), excluding Cape Cod. An index to families, by C. H. Knowlton, in *Rhodora* 31: 41-43. 1929. Greater part of list by C. H. Knowlton and Walter Deane.

Palmer, E. J. The spontaneous flora of the Arnold Arboretum. Jour. Arnold Arboretum 11: 63-119. 1930.—Supplement . . . l. c. 16: 81-97. 1935.

Physiography, geology, general features of flora; annotated list of vascular plants. (In Jamaica Plain, Norfolk County.)

Robinson, John. The flora of Essex County, Massachusetts. 200 p. 26 cm. Salem, 1880.

Plant geography, biographical sketches of early botanists, bibliography; annotated list of vascular and cellular plants.

Simonds, A. B., Whittemore, G. F., Farrar, W. G., and Hartwell, E. A. Catalogue of the phaenogamous and vascular cryptogamous plants of Fitchburg and vicinity. 39 p. 23 cm. Fitchburg, 1885.

Unannotated list of 816 vascular plants. (Worcester County.)

Stone, G. E. A list of plants growing without cultivation in Franklin, Hampshire and Hampden Counties, Massachusetts. vii, 72 p. 21.5 cm. Amherst, 1913.

Botanical explorations, etc.; partly annotated list of vascular plants (1,493 species).

Tracy, C. M. Studies of the Essex flora: an enumeration of all plants found growing naturally within the limits of Lynn, Mass., and towns adjoining, with notes as to localities and habits. 99 p. 20 cm. Lynn, 1892. (1st ed., 1858.)

General features of flora; annotated list of spermatophytes. (Essex County.)

Waltham. Botany Club. A partial list of the native flora of Waltham, Mass. 12 p., 36 leaves. 14.5 cm. Waltham, 1883.

Unannotated list of vascular plants, mosses, and lichens, with flowering dates. (Middlesex County.)

Young, H. A. Catalogue of the flora of "Oak Island," Revere, Massachusetts, with notes. *Bul. Essex Inst.* 14: 141-157. map. 1883. (Reprinted, 19 p.)

General features and statistics of flora; annotated list of 362 vascular plants, mosses, and hepatics. The introduction is by John Robinson.—For additions see Rich, W. P. Oak Island and its flora. *Rhodora* 4: 87-94. 1902. (Suffolk County.)

MICHIGAN

General

Beal, W. J. Michigan flora. *Ann. Rpt. Mich. Acad. Sci.* 5: 1-147. 1904. (Reprinted with subtitle: A list of the fern and seed plants growing without cultivation.)—Additions . . . 1. c. 10: 85-89. 1908.

Climate, distribution, etc.; annotated list of 2,365 species (including the "Additions") of vascular plants; bibliography. Replaces Beal and Wheeler, C. F. Michigan flora. 1892.—See also Hermann, F. J. Notes on the flora of Michigan I. *Rhodora* 38: 362-367. 1936.—Hanes, C. R. Additions to the flora of Michigan. *Papers Mich. Acad. Sci.* 23: 135-139. 1938.—Hanes, C. R. Plants new or rare in Michigan records. 1. c. 24: 3-7. 1939.—See also Farwell, O. A. Contributions to the botany of Michigan no. 14. *Rpt. Mich. Acad. Sci.* 17: 167-182. 1916. Contributions . . . no. 15-16. *Amer. Midl. Nat.* 11: 72-85, 261-269. 1928-29.—Also his Notes on the Michigan flora I-III. *Rpt. Mich. Acad. Sci.* 20: 161-195. 1918 (1919); 21: 345-371. 1920; 22: 177-185. 1921. Notes . . . IV-VII. *Papers Mich. Acad. Sci.* 1: 85-100. 1923; 2: 11-46. 1923; 3: 87-109. 1924; 23: 123-134. 1938.—Also his Botanical gleanings in Michigan [I]-VII. *Amer. Midl. Nat.* 8: 263-280. 1923; 9: 259-282. 1925; 10: 19-46, 199-219. 1926-27; 11: 41-71. 2 fig. 1928; 12: 44-78, 113-134. 4 fig. 1930.

Gleason, H. A. The plants of Michigan. Simple keys for the identification of the native seed plants of the State. xlvii, 158 p. 19 cm. Ann Arbor, 1918. Unannotated keys.

Lyons, A. B. The indigenous medical plants of Michigan. *Detroit Lancet* 1: 107-118, 197-209. 1878. (Reprinted 25 p., with cover title: Medicinal plants indigenous in Michigan.)

Running account of medicinal plants, in systematic order.

Otis, C. H. Michigan trees. A handbook of the native and most important introduced species. 6th ed., rev. 247 p. illus. (incl. map), pl. 19 cm. Ann Arbor, 1923. (University bulletin n.s., v. 25, no. 5.) (1st issue, 1913.)

Annotated descriptive list, with keys; figure of each species.

Spalding, V. M. Native medicinal plants of Michigan. *Proc. Mich. Pharm. Assoc.* 4: 18-27. 1877.

List of vascular and cellular plants, annotated only as to abundance.

Stearns, Frederick. The medicinal plants of Michigan. *Proc. Amer. Pharm. Assoc.* 7: 236-285. 1858.

Annotated alphabetical list of nearly 600 wild medicinal plants.

Woodcock, E. F. Observations on the poisonous plants of Michigan. *Amer. Jour. Bot.* 12: 116-131. 1925.

Annotated list of 156 vascular plants; bibliography.

Local

Allabach, L. F. Plants collected in Les Cheneaux Islands, Michigan. *Trillia* 6: 33-40. 1921.

Geology, topography, general features of flora; mostly unannotated list of vascular plants. Les Cheneaux Islands are in northern Lake Huron, 14 miles northeast of Mackinac Island. (Mackinac County.)

Allmendinger, E. C. Flora of Ann Arbor and vicinity. *Proc. Ann. Arbor Scient. Assoc.* 1876: 85-116. 1876.

Mostly unannotated list of 848 vascular plants, found within a 4-mile radius. (Washtenaw County.)

Billington, Cecil. The flowering plants and ferns of Warren Woods, Berrien County, Michigan. *Papers Mich. Acad. Sci.* 4 (1): 81-110. 1 fig. (map), pl. 9-11. 1925.

Plant associations; annotated list of 358 vascular plants.

Brown, C. A. Ferns and flowering plants of Isle Royale, Michigan. 90 p. 21 fig. 23.5 cm. [Washington, D. C., 1937.]

Physiography, climate, botanical explorations, general features of flora, changes in vegetation; annotated list of 671 species and varieties of vascular plants; bibliography. A publication of the National Park Service. (Keweenaw County.)

Cole, E. J. Grand Rapids flora: a catalogue of the flowering plants and ferns growing without cultivation in the vicinity of Grand Rapids, Michigan. xxii, 170 p. 2 pl., map. 25.5 cm. Grand Rapids, 1901.

Geology, topography, climate, etc.; annotated list of 1,290 vascular plants. (Kent County.)

Coleman, Nathan. Catalogue of the flowering plants of the southern peninsula of Michigan, with a few of the Cryptogamia. 49 p. 21 cm. Grand Rapids, 1874. (Kent Scientific Institute. Miscellaneous publications no. 2.)

Mostly unannotated list of vascular plants.

Cooper, W. S. A catalogue of the flora of Isle Royale, Lake Superior. Rpt. Mich. Acad. Sci. 16: 109-131. 1914.

Annotated list of 519 vascular plants; bibliography. (Keweenaw County.)

Dachnowski, Alfred. Flora of the Marquette quadrangle. Rpt. Mich. Acad. Sci. 9: 88-103. 1907.

Botanical explorations, topography, botanical distribution, bibliography; tabular list of vascular plants, with local habitats indicated. (Marquette County.)

Daniels, F. P. Ecology of the flora of Sturgis, Mich., and vicinity. Rpt. Mich. Acad. Sci. 4: 145-159. 1904.

General features of flora, plant formations; list of 670 vascular plants, ecologically arranged. (St. Joseph County.)

— The flora of the vicinity of Manistee, Mich. Rpt. Mich. Acad. Sci. 4: 125-144. 1904.

Topography, plant associations; list of 750 vascular plants, divided ecologically. (Manistee County.)

Darlington, H. T. Contributions to the flora of Gogebic County, Michigan. Ann. Rpt. Mich. Acad. Sci. 22: 147-176. 1921.—Papers Mich. Acad. Sci. 1: 74-82. 1923.

Topography, general features of flora; annotated list of vascular plants.

— Vegetation of the Porcupine Mountains, northern Michigan. Pt. II. Floristics. Papers Mich. Acad. Sci. 22: 33-68. pl. 5-6. 1937.

Annotated list of vascular plants; bibliography. (Ontonagon County.)

Davis, C. A. The native vegetation of Tuscola County. Notes on the factors affecting plant distribution. In his Report on the geology of Tuscola County, Michigan. Rpt. State Bd. Geol. Survey Mich. 1908: 290-346. 1909.

Temperature, soils, plant associations; annotated list of vascular plants.

Dodge, C. K. A botanical trip to Thunder Bay Island. Rpt. Mich. Acad. Sci. 10: 40-41. 1908.

Includes running account of plants observed. (In Lake Huron, Alpena County.)

— Catalog of plants. In Ruthven, A. G. A biological survey of the sand dune region on the south shore of Saginaw Bay, Michigan. Pub. Mich. Geol. and Biol. Survey 4 (Biol. Ser. 2): 65-120. 1911.

Annotated list of 886 vascular plants; general features of vegetation. (Huron County.)

— Flora of St. Clair County, Michigan, and the western part of Lambton County, Ontario. Ann. Rpt. State Hort. Soc. Mich. 29: 231-313. 1900.

Annotated list of 1,112 vascular plants.

— The flowering plants, ferns and their allies of Mackinac Island. Rpt. Mich. Acad. Sci. 15: 218-237. 1913.

Topography, general features of flora; annotated list of over 400 vascular plants. Two unnumbered pages of Addenda are included. (Mackinac County.)

— Observations on the flowering plants, ferns and fern allies growing wild in Marquette County, Michigan, in 1916 and 1917, especially in the vicinity of the Huron Mountain Club. (Contributions to the botany of Michigan II.) Misc. Pub. Mus. Zool. Univ. Mich. no. 5. 44 p. map. 1918.

Annotated list of vascular plants.

Dodge, C. K. Observations on the flowering plants, ferns and fern allies growing wild in Schooner County and vicinity in the Upper Peninsula of Michigan in 1915. Pub. Mich. Geol. and Biol. Survey 31 (Biol. Ser. 6) : 75-123. 1921.

Physiography, etc.; annotated list of vascular plants.

— Observations on the flowering plants, ferns and fern allies growing without cultivation in Tuscola County, Michigan. Pub. Mich. Geol. and Biol. Survey 31 (Biol. Ser. 6) : 165-222. 1921.

Physiography, etc.; annotated list of vascular plants.

— Observations on the flowering plants, ferns, and fern allies on and near the shore of Lake Huron from Linwood Park near Bay City, Bay County, to Mackinaw City, Cheboygan County, including the vicinity of St. Ignace, Mackinac, and Bois Blanc Islands, Mackinac County, Michigan. Pub. Mich. Geol. and Biol. Survey 31 (Biol. Ser. 6) : 15-74. map. 1921.

Geography, physiography, etc.; annotated list of vascular plants.

— Observations on the wild plants at Whitefish Point and Vermilion, near the south shore of Lake Superior, and other parts of Chippewa County, Michigan, in 1914. Pub. Mich. Geol. and Biol. Survey 31 (Biol. Ser. 6) : 125-164. 1921.

Physiography, habitats, etc.; annotated list of vascular plants.—See also Hermann, F. J. Additions to the flora of Chippewa County . . . Papers Mich. Acad. Sci. 22: 85-89. 1937.

— Results of the Merston expedition to the Charity Islands, Lake Huron. Rpt. Mich. Acad. Sci. 13: 173-190. 1911.

Annotated list of 372 vascular plants. The Charity Islands are in Saginaw Bay in Arenac County.

Farwell, O. A. A catalogue of the flora of Detroit. Rpt. Mich. Acad. Sci. 2: 31-68. 1901. (Reprinted with additions from 11th Ann. Rpt. Commr. Parks and Boulevards, Detroit, 1900.)—Additions and corrections to the flora of Detroit. l. c. 6: 209-214. 1904. (*In his Contributions to the botany of Michigan no. 8.*)

Annotated list of 885 species and minor forms of vascular plants. This forms one [no. 7a] of his Contributions to the botany of Michigan. (Wayne County.)

— The flora of Parkedale Farm, with special reference to Stony Creek Valley. Rpt. Mich. Acad. Sci. 15: 150-192. 1 fig. (map). 1913. (*His Contributions to the botany of Michigan no. 9.*)

Topography, plant associations; annotated list of 479 vascular plants. (Oakland County.)

Gates, F. C., and Ehlers, J. H. An annotated list of the higher plants of the region of Douglas Lake, Michigan. Papers Mich. Acad. Sci. 4: 183-284. 1925.—Additions . . . l. c. 8: 111-120. 1928; 13: 67-88. 1931.

List of 1,026 vascular plants; bibliography. The "Additions" bring the total to 1,177 species. (*In Emmet and Cheboygan Counties.*)

Gilmore, M. R. Some Chippewa uses of plants. Papers Mich. Acad. Sci. 17: 119-143. 1933.

Annotated systematic list, with Chippewa names and uses.

Hebert, P. E. Ferns and flowering plants of Berrien County, Michigan. Amer. Midl. Nat. 15: 328-342. 1934.

Unannotated list of 895 vascular plants.

Kellogg, H. S. The flora of the Rainy River region. Proc. Iowa Acad. Sci. 22: 60-75. pl. 16-17. 1915. (Reprinted in Contrib. Bot. Dept. Iowa State Col. no. 60.)

List of cellular and vascular plants mostly collected by the author in 1914. (Cheboygan and adjacent counties.)

Pammel, L. H., and Cratty, R. I. Some notes on plants of Whitehall, Michigan. Proc. Iowa Acad. Sci. 30 (1923) : 279-285. 7 fig. [1924.]

General features of flora; unannotated list of vascular plants. (Muskegon County.)

Sutton, J. M. Flora of the Detroit Zoological Tract. Ann. Rpt. Mich. Acad. Sci. 19: 263-271. fig. 13 (map). 1917.

Unannotated list of vascular plants. (Oakland County.)

Walpole, B. A. Flora of Washtenaw County, Michigan. 80 p. (incl. map). 23 cm. Ypsilanti, [1924].

Collecting localities; annotated list of 1,202 vascular plants; bibliography (p. 5).—See also Hermann, F. J. Additions to the flora . . . Papers Mich. Acad. Sci. 21: 81-87. 1936; 22: 91-94. 1937; 24: 17-23. 1939.

MINNESOTA

See also Wisconsin (Cheney, A contribution to the flora; Pammel; Smith, Ethnobotany of the Ojibwe Indians).

General

Rosendahl, C. O., and Butters, F. K. Trees and shrubs of Minnesota. vii, 385 p. illus. (incl. map). 26.5 cm. Minneapolis, 1928.

Descriptive flora of native and cultivated woody plants, with keys; general features of vegetation; glossary. Replaces Minnesota trees and shrubs, by F. E. Clements, C. O. Rosendahl, and F. K. Butters, 1912, though not considered a second edition.

Upham, Warren. Catalogue of the flora of Minnesota, including its phaenogamous and vascular cryptogamous plants, indigenous, naturalized, and adventive. 193 p. 24 cm. Minneapolis, 1884. (Ann. Rpt. Geol. and Nat. Hist. Survey Minn. 1883, pt. 6.)—Supplement to the flora of Minnesota. Bul. Geol. and Nat. Hist. Survey Minn. 3: 46-54. 1887.

History of botanical exploration, including bibliography, topography, etc.; annotated list of vascular plants.

Weschcke, Carl. An enumeration of the medicinal plants of the State of Minnesota. Pharm. Rundschau (N. Y.) 8: 155-157. 1890.

Unannotated systematic list of vascular plants.

Local

Arthur, J. C., Bailey, L. H., and Holway, E. W. D. Plants collected between Lake Superior and the International Boundary, July, 1886. Bul. Geol. and Nat. Hist. Survey Minn. 3: 10-43. 1887.

List of vascular and cellular plants, with localities. (St. Louis and Lake Counties.)

Bailey, L. H. Chippeway plant names. Bot. Gaz. 12: 37-39. 1887.

List of Indian names obtained in northern Minnesota, with botanical equivalents.

Densmore, Frances. Uses of plants by the Chippewa Indians. Ann. Rpt. Bur. Amer. Ethnol. 44: 275-397. pl. 28-63. 1928 (1929).

Table of plants used, with scientific and vernacular names and translations of latter, uses, and references; sections on medicinal, food, dye, charm, and decorative plants; references. The data were gathered in Minnesota, Wisconsin, and Ontario.

MacMillan, Conway. The Metaspermae of the Minnesota valley. A list of the higher seed-producing plants indigenous to the drainage basin of the Minnesota River. xiii, 826 p. 2 maps. 25.5 cm. Minneapolis, 1892. (Rpt. Geol. and Nat. Hist. Survey Minn. Bot. Ser. 1.)

Annotated list of 1,174 Angiospermae, with rather extensive synonymy and references; general features of plant distribution, statistical tables, etc.; bibliography. Covers most of southern and southwestern Minnesota and small adjacent areas in South Dakota and Iowa (see p. 571).

Pammel, L. H. The flora of Star Island and vicinity. Ames Forester 3: 119-141. 3 fig. (maps), 7 pl. 1915.

Bibliography, geology, topography, plant formations, etc.; list of cellular plants, annotated list of vascular plants. (In Cass Lake, Cass County.)

Reagan, A. B. Plants used by the Bois Fort Chippewa (Ojibwa) Indians of Minnesota. Wisconsin Archeol. n. s., 7: 230-248. 1928.

Annotated systematic list. (Koochiching County.)

Rosendahl, C. O., and Butters, F. K. Reputed Minnesota plants which probably do not occur in the State. Minn. Bot. Studies 4: 461-473. 1916.

Bibliography; list of vascular plants incorrectly reported or not authenticated by specimens.

Wheeler, W. A. A contribution to the knowledge of the flora of southeastern Minnesota. Minn. Bot. Studies 2: 353-416. pl. 21-27. 1900.

Topography, plant associations; annotated list of 578 vascular plants collected in the summer of 1899, in the vicinity of Winnebago, Faribault County.—See also Rosendahl, C. O. An addition . . . l. c. 3: 257-269. 1903.

——— A contribution to the knowledge of the flora of the Red River Valley in Minnesota. Minn. Bot. Studies 2: 569-600. pl. 34-41. 1901.

Soil, etc.; list of 325 angiosperms collected in August 1900, with localities and collectors' names. The Red River of the North constitutes the boundary between Minnesota and North Dakota.

MISSISSIPPI

See also Louisiana (Lloyd and Tracy).

General

Lowe, E. N. Plants of Mississippi. A list of flowering plants and ferns. 24 cm. Bul. Miss. State Geol. Survey 17. 292 p. (incl. map.) 1921.

Topography, floral regions; annotated list of vascular plants.

Phares, D. L. Synopsis of the medical flora of the State of Mississippi. Ann. Rpt. Miss. State Bd. Health 1: 139-180. 1877.

Annotated systematic list.

Local

Brown, C. S. Tishomingo State Park, botany. Bul. Miss. State Geol. Survey 32: 37-77. 1936.

Annotated list of vascular plants. (Tishomingo County.)

Lauderburn, D. E. Trees of the Yazoo-Mississippi Delta and their economic values. Ext. Bul. Miss. State Col. 67. 32 p. illus. 1933.

Annotated list, with uses. Adapted from Putnam, J. A., and Bull, Henry. Trees of the bottomlands of the Mississippi River Delta region. Occas. Paper South. Forestry Expt. Sta. no. 27. 1932. (Region from Tennessee line to Vicksburg, extending east for 10 to 70 miles to the loessial bluffs.)

MISSOURI

General

Bush, B. F. The trees, shrubs and vines of Missouri. Ann. Rpt. State Hort. Soc. Missouri 37: 353-393, 1-v. 1895.

Annotated list of 294 species.—See also his Notes on trees and shrubs of Missouri. Amer. Midl. Nat. 10: 133-153. 1926. (Supplementary notes (on 97 species) to Tracy's Flora (1886); most of the species mentioned are excluded from the flora of the State.)

Palmer, E. J., and Steyermark, J. A. An annotated catalogue of the flowering plants of Missouri. Annals Missouri Bot. Gard. 22: 375-758. 6 fig. (maps), pl. 15-21. 1935.

Botanical explorations, physiography, climate, geology, botanical regions, bibliography; annotated list of spermatophytes (2,281 species plus 209 varieties and forms). This figure includes the Pteridophyta, not treated in this paper; for the latter see their The ferns and fern allies of Missouri. Amer. Fern Jour. 22: 105-122. 2 fig. 1932 (1933); also Pinkerton, M. E. Ferns and fern allies of Missouri. Annals Missouri Bot. Gard. 20: 45-77. fig. 1 (map), pl. 5, fold. tab. 1933.—See also Steyermark, J. A. Plants new to Missouri. Rhodora 40: 249-255. 1938.—Palmer, E. J., and Steyermark, J. A. Additions, corrections, and revisions . . . Annals Missouri Bot. Gard. 25: 775-794. 1938.—Replaces Tracy, S. M. Flora of Missouri. Rpt. Missouri State Hort. Soc. 28 (1885), app. 106 p. 1886. (Also reprinted with title: Catalogue of the phaenogamous and vascular cryptogamous plants of Missouri.)

Pammel, L. H. Poisonous and medicinal plants of Missouri. Bul. Missouri State Bd. Hort. no. 14. 46 p. 26 fig. [1910?]

Local laws relating to poisonous plants, etc.; running account of principal species.

Local

Bush, B. F. Notes on the mound flora of Atchison County, Missouri. *Ann. Rpt. Missouri Bot. Gard.* 6: 121-134. 1895.

Topography, general features of flora; annotated list of angiosperms collected by author in 1893.

Daniels, F. P. The flora of Columbia, Missouri, and vicinity. *Univ. Missouri Studies Sci. Ser.* v. 1, no. 2. ix, 319 p. map. 1907. (Has also continuous paging (143-461) of volume.)

Annotated list of native and introduced vascular plants (1,058 species and 47 varieties); ecology, bibliography.—For corrections and additions see Bush, B. F., *Amer. Midl. Nat.* 12: 185-194, 343-362. 1931; 16: 83-93. 1935.—See also Rickett, H. W. *Flora of Columbia, Missouri.* 1931. (Boone County.)

Engelmann Botanical Club. A preliminary check list of the cryptogams and phanerogams in the vicinity of Saint Louis, Missouri. [9], 63 p. 21 cm. Saint Louis, 1911.

Unannotated list of cellular and vascular plants, alphabetically arranged, with localities indicated. The area covered includes a small part of adjacent Illinois. Replaces Eggert, Henry (i. e. Heinrich). *Catalogue of the phaeogamous and vascular cryptogamous plants in the vicinity of St. Louis, Mo.* 16 p. 23 cm. St. Louis, [1891].—See also Steyermark, J. A. Recent additions to the flora of St. Louis County, Missouri. *Rhodora* 36: 375-376. 1934.

Mackenzie, K. K., Bush, B. F., and others. *Manual of the flora of Jackson County, Missouri.* xix, 242 p. 24.5 cm. Kansas City, Mo., 1902.

Physiography, etc.; briefly descriptive annotated flora of vascular plants (1,141 species and 51 varieties).

Missouri Botanical Garden. Check-list of the ferns and flowering plants indigenous to the Missouri Botanical Garden extension, Gray Summit, Missouri. *Missouri Bot. Gard. Bul.* 16: 65-74, 83-91. 1928.

Unannotated list of vascular plants. (Franklin County.)

Medicinal plants of our local flora. *Missouri Bot. Gard. Bul.* 10: 118-123, 137-142, 153-157, 166-169. 1922.

Annotated list, the species alphabetically arranged and divided into herbaceous and woody groups. Refers to the vicinity of St. Louis.

Plants of our local flora which have been used by man as food. *Missouri Bot. Gard. Bul.* 10: 102-110. 1922.

Annotated list, classified by parts used.

Palmer, E. J. *Catalogue of the plants of Jasper County, Missouri (fernworts and flowering plants).* *Annals Missouri Bot. Gard.* 3: 345-401. 1916.

Physiography, geology, floral areas; list of vascular plants, with collecting numbers of the author.

Flora of the Grand Falls chert barrens. *Trans. Acad. Sci. St. Louis* 19: 97-112. 1910.

Geology, topography, general features of flora; annotated list of vascular plants. (Newton and Jasper Counties.)

Rickett, H. W. *Flora of Columbia, Missouri.* *Univ. Missouri Studies* v. 6, no. 1. 84 p. map. 1931.

Essentially a revision of Daniels' *Flora* (q. v.) and supplementary to it; list, with occasional annotations (1,005 species).—For corrections and additions see Drouet, F. Notes on the flora . . . *Rhodora* 35: 359-364. 1933; 37: 189-196. 1935. (Boone County.)

A list of plants from the Missouri Ozarks. *Amer. Midl. Nat.* 11: 243-254. 1928.

Itinerary; list of vascular plants collected by the author in 1927, with localities. (South-central Missouri.)

MONTANA

General

Blankinship, J. W. A century of botanical exploration in Montana, 1805-1905: collectors, herbaria and bibliography. *Montana Agr. Col. Sci. Studies* 1: 3-31. 1904.

Annotated list of collectors; annotated bibliography.

Blankinship, J. W. Native economic plants of Montana. *Bul. Montana Agr. Expt. Sta.* 56: 36 p. 1905.

Annotated alphabetical list of wild economic plants; bibliography; list of species classified by uses.

— and Henshall, H. F. Common names of Montana plants. *Montana Agr. Col. Sci. Studies* 1: 113-139. col. pl. 1905.

Alphabetical lists of vernacular and botanical names, with equivalents.

Rydberg, P. A. Catalogue of the flora of Montana and the Yellowstone National Park. *Mem. New York Bot. Gard.* v. 1. xi, 492 p. map. New York, 1900.

List of collectors, with dates and location of specimens; annotated list of 1,976 vascular plants, with references and citation of exsiccatae.—See also Blankinship, J. W. Supplement to the flora of Montana: additions and corrections. *Montana Agr. Col. Sci. Studies* 1: 33-109. 6 fig. 1905.

Local

Grinnell, G. B. The Cheyenne Indians, their history and ways of life. 2 v. plates, map. 24.5 cm. New Haven, 1923.

Includes (v. 2, p. 166-191) annotated systematic list of 94 useful plants, with botanical and vernacular names.

Jones, M. E. Montana botany notes, containing descriptions of new species, list of plants not heretofore recorded from the State, and notes on disputed species. *Bul. Univ. Montana* no. 61, *Biol. Ser.* no. 15. 74 p. (incl. 2 fig., 5 pl.). 1910.

Partly annotated list of about 1,700 vascular and cellular plants, with localities, constituting essentially a flora of the Flathead Lake region, Flathead County, but including species from other localities; gazetteer.

Standley, P. C. Flora of Glacier National Park, Montana. *Contrib. U. S. Natl. Herb.* 22: 235-438. pl. 33-52. 1921.

Briefly annotated list, with keys and partial descriptions, of the vascular plants (955 species); physiography, life zones, botanical explorations, annotated bibliography. A more popular account of the same flora is his "Plants of Glacier National Park." *U. S. Dept. Interior, National Park Service.* 110 p. 150 fig., 5 col. pl. 1926.—For additions, see Graff, P. W. Unreported plants from Glacier National Park. *Bul. Torrey Club* 49: 175-181. 1922.—Maguire, Bassett. Distribution notes concerning certain plants of Glacier National Park, Montana. *Rhodora* 36: 305-308. 1934; 41: 504-508. 1939.—McLaughlin, W. T. Notes on the flora of Glacier National Park, Montana. *Rhodora* 37: 362-365. 1935. (Includes bibliography.) (Flathead and Glacier Counties.)

NEBRASKA

General

Clements, F. E. A preliminary list of the botanical expeditions in Nebraska, 1803-1893. *Rpt. Bot. Survey Nebraska* 3: 39-42. 1894.

Chronological list of 18 expeditions with localities covered.

Petersen, N. F. Flora of Nebraska. A list of the ferns, conifers and flowering plants of the State with keys for their determination. 3d ed. 220 p. 21 cm. Lincoln, 1923. (1st ed., 1912.)

Annotated list of vascular plants, with keys.

Pool, R. J. Handbook of Nebraska trees. A guide to the native and most important introduced species. *Bul. Nebraska Conserv. and Soil Survey* 7. 2d ed. 179 p. illus. (incl. maps). 1929. (Contribution from the Botanical survey of Nebraska n. s., no. 3.) (1st ed., 1919.)

Annotated descriptive list, with figure of each species, and maps showing local range of most species.

Pound, Roscoe. Bibliography of the flora of Nebraska. *Rpt. Bot. Survey Nebraska* 3: 43-48. 1894.

Unannotated list of papers, arranged by authors; critical notes on Aughey's Catalogue of the flora of Nebraska. Republished with additions in Pound, R., and Clements, F. C. The phytogeography of Nebraska. 2d ed. *In* University of Nebraska. Botanical survey of Nebraska 8: 25-30. 1900.

Winter, J. M. An analysis of the flowering plants of Nebraska, with keys to the families, genera, and species, and with notes concerning their occurrence, range, and frequency within the State. Bul. Conserv. Dept. Conserv. and Surv. Div. Univ. Nebraska no. 13. iii, 203 p. 23 cm. [Lincoln,] 1936. (Contribution from the Botanical survey of Nebraska n. s., no. 10.)

Annotated list of angiosperms, with keys.

Local

Bessey, C. E. The forest trees of eastern Nebraska. Proc. Iowa Acad. Sci. 13: 75-87 (incl. maps). 1906.

Annotated list of 67 species, each with a small map showing local range.

Gilmore, M. R. Some native Nebraska plants with their uses by the Dakota. Collect. Nebraska State Hist. Soc. 17: 358-370. 1913.

Annotated systematic list, with vernacular names.

——— A study in the ethnobotany of the Omaha Indians. Collect. Nebraska State Hist. Soc. 17: 314-357. 1913.

Running account of useful plants grouped by uses; annotated systematic list, with vernacular names; list of plants grouped by uses; bibliography. (Eastern Nebraska.)

——— Uses of plants by the Indians of the Missouri River region. Ann. Rpt. Bur. Amer. Ethnol. 33: 43-154. 30 pl. 1919.

General considerations: annotated systematic list of plants, with vernacular names and uses; lists of plants discussed, with names in different Indian languages; bibliography. Refers mainly to Nebraska.

Rydberg, P. A. Flora of the sand hills of Nebraska. Contrib. U. S. Natl. Herb. 3: 133-200. pl. 2. 1895.

Author's itinerary in 1893, topography, floral districts, etc.; annotated list of vascular plants collected; numerical list of specimens. The sand hill region extends from about 98°-103° W. Long., with the Niobrara and North Platte Rivers as north and south boundaries. The author collected chiefly in Thomas, Hooker, and Grant Counties.

Smith, J. G., and Pound, Roscoe. Flora of the sand hill region of Sheridan and Cherry Counties and list of plants collected on a journey through the sand hills in July and August, 1892. In University of Nebraska. Botanical survey of Nebraska 2: 5-30. 1893.

Topography, general features of flora: list of vascular and cellular plants collected, with localities.

Tillotson, C. R. The trees of Lincoln and vicinity. Ann. Rpt. Nebraska State Bd. Agr. 1906/07: 213-236. 1907.

Annotated list, including cultivated species. (Lancaster County.)

NEVADA

General

Tidestrom, Ivar. Flora of Utah and Nevada. Contrib. U. S. Natl. Herb. v. 25. 665 p. 15 pl., map. 1925.

Physiography, life zones; plant communities (by H. L. Shantz), the foothill-montane-alpine flora and its environment (by A. W. Sampson); systematic list of vascular plants (about 3,700 species), with keys, references, local habitat, and general range. Treatments of several families contributed by various authors.—For additions (relating principally to Utah) see Maguire, Bassett. Distributional notes on plants of the Great Basin region I-II. Leaflets West. Bot. 1: 183-188. 1935; 2: 23-26. 1937.

NEW HAMPSHIRE

General

Flint, W. F. The distribution of plants in New Hampshire. In Hitchcock, C. H. The geology of New Hampshire. p. 381-415. pl., map. Concord, 1874.
General features of flora; list of vascular plants (and lichens) with local range indicated. The latest State list, but long out of date.

Flint, W. F. The trees and shrubs composing the New Hampshire forests. Their distribution, relative abundance, and utility. Rpt. Col. Agr. and Mech. Arts New Hampshire 19: 60-99. 1890. (Reprinted with some changes from Rpt. Forestry Comm. New Hampshire 1st, 1885.—Reprinted 42 p. 1891.)

Annotated list.—See also Foster, J. H. Trees and shrubs of New Hampshire. Bienn. Rpt. Forestry Comm. New Hampshire 1930. [pt. 2.] 131 p. illus. 1931. (Popular account.)

Local

Batchelder, F. W. Preliminary list of plants growing without cultivation in the vicinity of Manchester, New Hampshire. rev. and enl. Proc. Manchester Inst. Arts and Sci. v. 4, pt. 2. 59 p. 1909. (1st ed., 1900.)

List of 1,063 species and 360 additional forms of vascular plants, annotated as to abundance; additional notes on 26 species. The list of 1900 contained 817 names. (Hillsboro County.)

Beetle, A. A. Flowering plants and ferns of the Fox research forest, Hillsboro, New Hampshire. Bul. C. A. Fox Res. and Demonstr. Forest no. 9. 40 p. 1938.

Annotated list of vascular plants. The list contains rather numerous errors; for corrections of the most important ones see Weatherby, C. A., and Blake, S. F. On certain plant records from Hillsboro, New Hampshire. Rhodora 41: 34-36. 1939.—Also Weatherby, C. A. A correction. l. c. 138-139. 1939. (Hillsboro County.)

Harris, W. S. The flora of Windham, N. H. In Morrison, L. A. Supplement to the history of Windham in New Hampshire. p. 69-97. Boston, 1892. (Reprinted 31 p. 1892.)

Contains list of 606 vascular plants. (Rockingham County.)

Jesup, H. G. A catalogue of the flowering plants and higher cryptogams, both native and introduced, found within thirty miles of Hanover, N. H., including a few cultivated species . . . vii, 91 p. map. 23 cm. [Hanover,] 1891.

Physiography, etc.; annotated list of 1,161 vascular plants. Hanover is in Grafton County; parts of Sullivan, Merrimack, and Belknap Counties in New Hampshire, and of Orange, Windsor, and Rutland Counties, Vermont, are included.—See also Eggleston, W. W. Flora of Mt. Moosilauke. Rhodora 2: 97-99. 1900.

Pease, A. S. List of plants on Three Mile Island. Pteridophyta and Spermatophyta. Appalachia 12: 266-276. 1911.

Botanical explorations; unannotated list of 218 vascular plants. (In Lake Winnepesaukee, near Center Harbor, Belknap County.)

Notes on the botanical exploration of the White Mountains. Appalachia 14: 157-178. 1917.

History of earlier botanical collecting, with bibliographical footnotes; list of collectors with dates.

Vascular flora of Coös County, New Hampshire. Proc. Boston Soc. Nat. Hist. 37: 39-388. pl. 5-11. 1924.—Plants new to Coös County, N. H. Rhodora 30: 104-105. 1928.

Physiography, soils, climate, general features of flora, history of botanical investigations, bibliography, etc.; annotated list of 1,297 vascular plants.

NEW JERSEY

See also New York (Taylor, Flora of the vicinity of New York); Pennsylvania (Keller and Brown; Smith).

General

Britton, N. L. Catalogue of plants found in New Jersey. Final Rpt. Geol. Survey New Jersey 2: 27-642. 1889 [1890]. (Reprinted.)

Physiography, bibliography; annotated list of vascular and cellular plants (5,641 species and varieties, of which 1,995 are vascular plants).

Halsted, B. D. Forest trees of New Jersey. Bul. New Jersey Agr. Expt. Sta. 202. 52 p. 25 fig. 1907.

Annotated compiled list; bibliography.

The poisonous plants of New Jersey. Bul. New Jersey Agr. Expt. Sta. 135. 28 p. 10 fig. 1899.

Annotated account, the plants grouped according to poisonous character.

Local

Fender, F. S. The flora of Seven Mile Beach, New Jersey. *Bartonia* 19: 23-41. 1938.

Botanical explorations, habitats, affinities of flora; annotated list of 416 vascular plants; bibliography. Seven Mile Beach is an island off the shore of Cape May County.

Harshberger, J. W. An ecological study of the New Jersey strand flora. *Proc. Acad. Nat. Sci. Phila.* [52] (1900): 623-671. 1901.—Additional observations on the strand flora of New Jersey. *I. c.* 54 (1902): 642-669. 6 fig. 1903.

Includes (p. 661-671; v. 54, p. 665-669) lists of plants known to occur on the beaches and salt marshes.

La Wall, C. H. Botanical notes from Longport, New Jersey. *Bartonia* 3: 12-21. 1911.

Annotated list of 160 vascular plants. (Atlantic County.)

Moldenke, H. N. A list of plants observed at and near The Pines, Branchville, New Jersey, during the Branchville nature conference, May 24-26, 1935. 9 p. [n. p., 1935?]

Unannotated list of 371 vascular plants. (Processed publication.) (Sussex County.)

— The observed flora of Watchung, N. J., and its immediate vicinity, together with a schematic classification of the plant kingdom to orders. 3d ed. 59 p. 23.5 cm. Watchung, 1934.

Unannotated list of cellular and vascular plants (1,170 wild species and varieties); statistics of the plant kingdom, giving the number of genera and species in the world by orders. The two previous editions of the list were issued in 1933 (hctographed). Ten multigraphed lists of additions have been issued (1 p., [n. d.]; 2 p., [n. d.]; 2 p., 1934; 5 p., 1935; 7 p., 1937; 1 p., 1937; 2 p., 1938; 3, 2, 3 p., 1939).—For general features of flora, see his *The flora of the Watchung Mountains*. *Torrey* 36: 57-61, 88-93. 2 fig. (incl. map). 1936. (Somerset County.)

Stone, Witmer. The plants of southern New Jersey, with especial reference to the flora of the pine barrens and the geographic distribution of the species. *Ann. Rpt. New Jersey State Mus.* 1910: 23-828. 5 fig. 129 pl. 1911 [1912]. (Reprinted.)

Local herbaria, phytogeography, floral districts, etc.; annotated list of vascular plants, with keys; bibliography, gazetteer. (Burlington and Monmouth Counties and southward.)

Walker, H. G., and Broadhurst, Jean. *Flora*. Englewood and vicinity. 45 p. 16.5 cm. [n. p., 1901.]

Unannotated list of vascular plants, without authorities for botanical names, covering area in Bergen County along Hudson River between Edgewater and Closter west to the Hackensack marshes.

NEW MEXICO

General

Castetter, E. F. Uncultivated native plants used as sources of food. *Univ. New Mexico Bul.* 266 (Biol. Ser. v. 4, no. 1). 62 p. 1935. (Ethnobiological studies in the American Southwest I.)

Annotated list, alphabetically arranged by botanical names, of native plants eaten by Indians of New Mexico and Arizona; bibliography; index of vernacular names.

Standley, P. C. A bibliography of New Mexican botany. *Contrib. U. S. Natl. Herb.* 13: 229-246. 1910.

Annotated list.

— Some useful native plants of New Mexico. *Ann. Rpt. Smithsn. Inst.* 1911: 447-462. 13 pl. 1912.

Running account, the plants grouped by uses.

Standley, P. C. The type localities of plants first described from New Mexico. *Contrib. U. S. Natl. Herb.* 13: 143-227. pl. 21, map. 1910.

Itineraries of Wislizenus, Wright, Whipple's expedition (Bigelow), Pope's expedition, Parke's expedition; descriptive list of type localities, with lists of species; annotated systematic list of species described from New Mexico.

Wootton, E. O. Native ornamental plants of New Mexico. *Bul. New Mexico Agr. Expt. Sta.* 51. 40 p. plates. 1904.

Running account of native plants of possible ornamental value.

——— Trees and shrubs of New Mexico. *Bul. New Mexico Agr. Expt. Sta.* 87. 159 p. illus. 1913.

Annotated treatment, with keys.

——— and Standley, P. C. Flora of New Mexico. *Contrib. U. S. Natl. Herb.* v. 19. 794 p. 1915.

Annotated list of 2,903 species of vascular plants, with keys; gazetteer.

Local

Castetter, E. F., and Opler, M. E. The ethnobiology of the Chiricahua and Mescalero Apache. A. The use of plants for foods, beverages and narcotics. *Univ. New Mexico Bul.* 297 (*Biol. Ser.* v. 4, no. 5). 63 p. 1936. (*Ethnobiological studies in the American southwest* III.)

Includes running account of plants used by these Indians in New Mexico and adjacent regions. The Mescalero lived mainly in New Mexico, west to the Rio Grande, east to northwestern Texas, south into northern Mexico; the Chiricahua west of the Rio Grande into southeastern Arizona and south into Chihuahua and Sonora.

Emerson, F. W. An ecological reconnaissance in the White Sands, New Mexico. *Ecology* 16: 226-233. 4 fig. (incl. map). 1935.

Includes list of 62 known vascular plants; bibliography. The area, occupying about 270 square miles, is covered with dunes composed of loose crystals of gypsum. (Otero County.)

Robbins, W. W., Harrington, J. P., and Freire-Marreco, Barbara. Ethnobotany of the Tewa Indians. *Bul. Bur. Amer. Ethnol.* 55. xii, 124 p. 7 fig., 8 pl., map. 1916.

Tewa classification and nomenclature of plants; glossary of Tewa names for plant organs, etc.; annotated list of wild and cultivated plants, with Tewa names and uses; bibliography. The Tewa are a tribe in the upper Rio Grande Valley, New Mexico.

Standley, P. C. Notes on the flora of the Pecos River National Forest. *Muhlenbergia* 5: 17-30. 1909.

Topography, botanical explorations, general features of flora; list of more interesting plants collected by the author in 1908, with localities. The Pecos River National Forest, now a part of the Santa Fe National Forest, was in San Miguel, Mora, and Santa Fe Counties.

Stevenson, M. C. Ethnobotany of the Zuñi Indians. *Ann. Rpt. Bur. Amer. Ethnol.* 30: 31-102. 3 pl. 1915.

Annotated lists of useful plants, classified by uses, with vernacular names. The Zuñi Indian Reservation is in western McKinley and Valencia Counties.

Watson, J. R. Manual of the more common flowering plants growing without cultivation in Bernalillo County, New Mexico. *Univ. New Mexico Bul.* 49 (*Biol. Ser.* v. 3, no. 1). xii, 107 p. 1908.

Annotated flora with keys and brief descriptions; the grasses and sedges omitted.

NEW YORK

General

Brown, H. P. Trees of New York State, native and naturalized. *Tech. Pub.* New York State Col. Forestry 15. 401 p. illus., map. 1922.

Description and full-page illustration of each species; keys; life zones. The "glossary of derivations" is a remarkable production. Revised and enlarged edition issued as *Trees of northeastern United States, native and naturalized.* 490 p. illus. 24 cm. Boston, 1938.

House, H. D. Annotated list of the ferns and flowering plants of New York State. New York State Mus. Bul. 254: 5-759. 1924.

Annotated list of about 2,876 species and many varieties, with synonymy; list of principal local floras.

— A bibliography of the botany of New York State. New York State Mus. Bul. 188 (Rpt. State Bot. 1915): 66-105. 1916. [1917].

Mostly unannotated list of floristic publications, geographically arranged.

— Wild flowers of New York. 2 v. 264 col. pl. 30 cm. Albany, 1918 [1920]. (New York State Museum Memoir 15.) (Reissued, 1934, in 1 vol. as Wild flowers.)

Popular descriptive flora of herbaceous plants, noteworthy for its excellent color photographs.

Lee, C. A. A catalogue of the medicinal plants, indigenous and exotic, growing in the State of New-York, with a brief account of their composition and medical properties. iv, 64 p. 23 cm. New York, 1848.

Annotated list. Reprinted from New York Jour. Med. 9: 151-166, 298-313. 1847; 10: 1-27. 1848.

Peck, C. H. Edible wild fruits of New York. Trans. Albany Inst. 12: 83-102. 1893.

Running account of edible wild fruits.

Torrey, John. A flora of the State of New-York, comprising full descriptions of all the indigenous and naturalized plants hitherto discovered in the State; with remarks on their economical and medicinal properties. 2 v. 161 (i. e. 162) pl. 29 cm. Albany, 1843. (Natural history of New York [div. 2].)

The classical flora of the State, still of value for its descriptions and illustrations. Occurs with both plain and hand-colored plates.

Local

Bausor, S. C. A review of some medicinal plants. Pt. 2. Medicinal plants of our local flora. Torreyia 37: 45-54. 1937.

Annotated systematic list of 100 more common medicinal plants in vicinity of New York City.

Beauchamp, W. M. Onondaga plant names. Bul. Torrey Club 15: 214, 262-266. 1888.—Onondaga Indian names of plants. 1. c. 16: 54-55. 1889.

Running account of vernacular names, with translations and English names.—See also his more extensive paper with same title in Jour. Amer. Folklore 15: 91-103. 1902. (Refers to the Indians of the Onondaga Valley.)

Beckwith, Florence, Macauley, M. E., and Fuller, J. B. Plants of Monroe County, New York, and adjacent territory. Proc. Rochester Acad. Sci. 3: 1-150. pl. 1-2 (maps). 1896.—Supplementary list. 1. c. 5: 1-38. 1910.—Second supplementary list. 1. c. 5: 59-99. 1917.

Collections, special localities, geology, climate, etc.: annotated list of 1,761 vascular plants (including supplements); annotated bibliography. M. S. Baxter is joint author in place of J. B. Fuller, in suppl. 1-2.

Bradford, G. W. A catalogue of plants, growing spontaneously in the vicinity of Cortland Academy, Homer, Cortland County, New-York. Ann. Rpt. Regents Univ. State N. Y. [1832]: 66-71. 1833.

Unannotated alphabetical list of 563 vascular plants.

Burgess, E. S. The Chautauqua flora: a catalogue of the plants of Chautauqua County, New York, native or naturalized; extending through the cryptogamous plants, to the end of the Hepaticae. 37 p. map. 23 cm. Clinton, N. Y., 1877.

Annotated list of 880 plants (761 vascular). (Processed publication.)

Burnham, S. H., and Latham, R. A. The flora of the town of Southold, Long Island and Gardiner's Island. Torreyia 14: 201-225, 229-254. 1914.—1st-5th supplementary list. 1. c. 17: 111-122. 1917; 21: 1-11, 28-33. 1921; 23: 3-9, 25-31. 1923; 24: 23-32. 1924; 25: 71-83. 1925.

Topography, general features of flora; partly annotated list of insect galls, cellular and vascular plants. (Suffolk County.)

Clute, W. N. The flora of the upper Susquehanna and its tributaries. xix, 142, x p. map. 21 cm. Binghamton, 1893.—1st supplement. 16 p. Binghamton, 1901.

Physiography, climate, general feature of flora, etc.: annotated list of 1,105 vascular plants. The area covered includes Broome, Chemung, Chenango, Cort-

land, Otsego, Steuben, and Tioga, and parts of Allegany, Delaware, Madison, and Schuyler Counties, New York, and parts of Bradford, Susquehanna, Tioga, and Wayne Counties, Pennsylvania.

Dallas, E. M. Minnewaska's flora. 13 p. 21 cm. [n. p.,] 1896.

Unannotated list of vascular plants. (Ulster County.)

Fenno, F. E. Plants of the Susquehanna valley and adjacent hills of Tioga County. New York State Mus. Bul. 67 (Rpt. State Bot. 1902): 47-160. 1903.—[1st]-2d supplementary list . . . 1. c. 75 (Rpt. State Bot. 1903): 57-60. 1904; 219/220: 247-250. 1920.

Topography; annotated list of vascular plants.

Ferguson, W. C. Ferns and flowering plants of the Hempstead Plains, Long Island, New York. *Torrey* 25: 109-113. 1925 (1926).

List of native vascular plants. (Nassau County.)

— Some interesting plants from Long Island, N. Y. *Torrey* 22: 43-49. 1922.—Contributions to the flora of Long Island, N. Y. 2d paper. *Bul. Torrey Club* 51: 177-201. 1924.—Addenda . . . *Torrey* 24: 88. 1924.—Contributions . . . 3d-[4th] paper. *Bul. Torrey Club* 52: 133-136. 1925; 53: 303-308. 1926.—Contributions . . . 5th-[6th] paper. *Torrey* 28: 45-51. 1928; 30: 9-14. 1930.

Lists of rarer species collected by the author, with localities and frequent annotations. To be taken as supplementary to Jelliffe's *Flora of Long Island* (q. v.).

Goodrich, Mrs. L. L. H. *Flora of Onondaga County* as collected by the members of the Syracuse Botanical Club. 210 p. port. 23.5 cm. Syracuse, N. Y., 1912.

Annotated list of vascular plants; list of mushrooms.

Gordinier, H. C., and Howe, E. C. The flora of Rensselaer County, New York. A record of the phenogams and vascular cryptogams growing . . . independent of cultivation. 39 p. 22.5 cm. Troy, 1894.

List of 1,345 vascular plants with localities of rarer species.

Gray, Asa. A catalogue of the indigenous flowering and filicoid plants growing within 20 miles of Bridgewater, (Oneida Co.) N. Y. *Ann. Rpt. Regents Univ. State N. Y.* [1832]: 57-65. 1833.

Unannotated list of vascular plants. This is Gray's first published paper; it was omitted from his bibliography in *Amer. Jour. Sci.* III, 36: app. (42, 25 p.). 1888.

Grier, N. M. The native flora of the vicinity of Cold Spring Harbor, N. Y. *Amer. Midl. Nat.* 9: 245-256, 283-318, 384-437. 1924-25.—The geology of Long Island with especial reference to the Cold Spring Harbor region and its flora. 1. c. 531-563. 1925. (Reprinted 265 p. [including blank pages for memoranda].)

List of 1,865 cellular and vascular plants (1,059 vascular) with localities and collectors' names; geology, soils, climate, botanical explorations; bibliography.—See critical review by N. Taylor, *Rhodora* 27: 213-215. 1926, and reply by Grier, 1. c. 28: 242-245. 1926. (Suffolk County, on Long Island.)

Haberer, J. V. A list of plants in the vicinity of Utica, for April, May and a portion of June. 20 p. 23 cm. Utica, 1888.

Annotated list of vascular plants. (Oneida County.)

Hollick, C. A., and Britton, N. L. The flora of Richmond County, New York. A catalogue of the phaenogamous and vascular cryptogamous plants . . . growing in Richmond Co., independent of cultivation. 36 p. 24.5 cm. Staten Island, 1879.

Briefly annotated list of vascular plants.—Additions published as follows: *Bul. Torrey Club* 7: 11-12. 1880; 8: 48. 1881; 9: 149-151. 1882; 12: 38-40. 1885; 13: 83-84. 1886; 16: 132-134. 1889; 18: 213-214. 1891; 22: 460-462. 1895.—Numerous minor additional notes are cited by J. H. Barnhart, *Mem. Torrey Club* 5: 42. 1915.

Hotchkiss, Neil. A botanical survey of the Tug Hill plateau. New York State Mus. Bul. 287. 123 p. 7 fig. (maps), 4 pl., map. 1932.

Botanical investigations, ecology, etc.; annotated list of vascular plants; bibliography. The Tug Hill plateau is in Lewis, Jefferson, Oswego, and Oneida Counties.

Hough, F. B. A catalogue of the indigenous, naturalized, and filicoid plants, of Lewis County. Arranged according to the natural method adopted by Professor Torrey, in the State catalogue. *Ann. Rpt. Regents Univ. State N. Y.* 59: 249-283. 1846.

Annotated list of vascular plants.

House, H. D. The vegetation of the eastern end of Oneida Lake. New York State Mus. Bul. 197 (Rpt. State Bot. 1916): 61-110. pl. 5-12. 1918; 266 (Rpt. State Bot. 1924): 28-40. 1925.

Geology, climate, life zones, plant associations; partly annotated list of vascular plants. (Chiefly Oneida and Madison Counties.)

— and Alexander, W. P. Flora of the Allegany State Park region. New York State Mus. Handbook 2. 225 p. 33 fig., map. 1927.

Annotated list of vascular plants; lists of species of special localities; bibliography. (Cattaraugus County.)

Howell, G. R., and Tenney, Jonathan. Botany. In their Bi-centennial history of Albany . . . p. 21-29. New York, 1886.

Unannotated list of vascular plants (sedges and grasses mostly omitted) of Albany County. This has been attributed to J. S. Markle and C. H. Peck.

Hoysradt, L. H. Catalogue of the phaeogamous [sic] and acrogenous plants growing without cultivation within five miles of Pine Plains, Dutchess [sic] Co., N. Y. Bul. Torrey Club v. 6, suppl. xxxii p. [1875-79.]

Annotated list of spermatophytes, the acrogens (pteridophytes) omitted.

Jelliffe, S. E. The flora of Long Island. 160 p. 24.5 cm. Lancaster, Pa., 1899.

Geology, soils, etc.; bibliography; annotated list of cellular and vascular plants (2,238 species, of which 1,383 are vascular plants).—See also Grout, A. J. Additions to the recorded flora . . . Torrey 2: 49-53. 1902.—Jelliffe, S. E. Additions . . . l. c. 4: 97-100. 1904. (Kings, Queens, Nassau, and Suffolk Counties.)

Latham, Roy. Flora of the State Park, Orient, Long Island, N. Y. Torrey 34: 139-149. 1934.

General features of flora; annotated list of vascular plants. (Suffolk County.)

Mead, S. B. A catalogue of plants growing spontaneously in the vicinity of North-Salem Academy. Ann. Rpt. Regents Univ. State N. Y. [1830]: 89-97. 1831.

Alphabetical list of 745 spermatophytes, with occasional annotations. (Westchester County.)

Miller, E. S., and Young, H. W. Catalogue of the phaenogamous and acrogenous plants of Suffolk County, Long Island. 15 p. 23 cm. Port Jefferson, 1874.

Unannotated list of 871 vascular plants.—See also Young, H. W. Additions to Suffolk County catalogue. Bul. Torrey Club 5: 34. 1874.—Miller, E. S. Suffolk County notes (and varying titles). l. c. 6: 155-157, 171-172, 258-259. 1877-78; 7: 17-18. 1880.

Paige, E. W. Catalogue of the flowering plants of Schenectady County. 48 p. 24 cm. Albany, 1864.

Physiography; annotated list of phanerogams.

Paine, J. A. Catalogue of plants found in Oneida County and vicinity. Ann. Rpt. State Cabinet Nat. Hist. N. Y. 18: 53-192. 1865. (Reprinted.)

Annotated list of vascular plants; includes numerous records from outside Oneida County.—See also Haberer, J. V. Plants of Oneida County, New York, and vicinity, I. Rhodora 7: 92-97, 106-110. 1905.

Peck, C. H. Plants of North Elba, Essex County, N. Y. New York State Mus. Bul. 6: 65-266. map. 1899.

Physiography, etc.; annotated list of vascular (492 species) and cellular plants of North Elba, a town in the Adirondack Mountains.

— Plants of the summit of Mt. Marcy. New York State Mus. Bul. 5 (Rpt. State Bot. 1898): 657-673. 1899.

Physiography, soil, general features of flora, list of 206 vascular and cellular plants, with remarks on some of the species. Mount Marcy (altitude 5,344 ft.) is the highest mountain in New York.—See also Adams, C. C., and others. Flowering plants from the Alpine zone above timber-line on Mt. Marcy. Ecology 1: 226-229. 1920. (Essex County.)

Raup, H. M. Botanical studies in the Black Rock forest. Black Rock Forest Bul. 7. 161 p. (incl. 9 fig., 11 pl.), fold. map. 1938.

Ecology; includes (p. 109-158) annotated list of vascular plants collected by the author in 1936-37. Black Rock Forest is a tract of privately owned land, approximately 3,200 acres in extent, lying west of the Hudson River in Orange County, N. Y.

Sartwell, H. P. Catalogue of plants, growing without cultivation in the vicinity of Seneca and Crooked Lakes, in western New-York. *Ann. Rpt. Regents Univ. State N. Y.* 58: 273-290. 1845.

Unannotated list of vascular plants. (Yates County.)

Smith, A. M. Corrected and enlarged list of plants found on the Adirondack League Club tract. *Adirondack League Club Yearbook 1904*: 43-61. [1904.] (1st ed., List of plants . . . l. c. 1898.)

Unannotated list of lichens, hepatics (by Caroline C. Haynes), mosses and vascular plants. (Herkimer County.)

Stearns, W. A. List of plants of Fishkill, N. Y. and vicinity. 23 p. 18.5 cm. [Fishkill, 1880?]

"Partial and incomplete" annotated list of vascular plants. (Dutchess County.)

Stetson, Sereno. The flora of Copake Falls, N. Y. *Torrey* 13: 121-133. 4 fig. 1913.

Topography, etc.; annotated list of angiosperms (ferns in supplement).—See also Burnham, S. H. A supplementary list of plants of Copake Falls . . . l. c. 217-219.—Stetson, S. 1913 notes on the flora of Copake Falls . . . l. c. 14: 42-45. 1 fig. 1914. (Columbia County.)

Stewart, P. A., and Merrell, W. D. The Bergen Swamp: an ecological study. *Proc. Rochester Acad. Sci.* 8: 209-262. 4 fig. (maps), 2 pl. 1937.

Includes unannotated list of vascular plants. Bergen Swamp is in the north-eastern part of Genesee County.

Taylor, Norman. Flora of the vicinity of New York. *Mem. N. Y. Bot. Gard.* v. 5. vi, 683 p. 9 maps. 1915.

Geology, plant geography; bibliography (by J. H. Barnhart); annotated list of 2,651 species of vascular plants (of which 2,038 are native) with keys. The area covered includes all of Connecticut and New Jersey, Long Island, south-eastern New York, and eastern Pennsylvania. See critical review by Fernald, M. L., *Rhodora* 17: 62-70. 1915.

Native trees of the Hudson River valley. *Bul. N. Y. Bot. Gard.* 7: 90-147. pl. 131-150. 1909.

Annotated list, with short descriptions.

The vegetation of Long Island. Pt. I. The vegetation of Montauk. A study of grassland and forest. *Mem. Brooklyn Bot. Gard.* 2: 1-107. 30 fig. (incl. diagrs., map). 1923.

Mainly ecological; includes (p. 85-107) list of 495 species of vascular plants, with localities. (Suffolk County.)

Wiegand, K. M., and Eames, A. J. The flora of the Cayuga Lake basin, New York. Vascular plants. *Mem. Cornell Agr. Expt. Sta.* 92. 491 p. map. 1923.

Physiography, soils, explorations, composition of flora; annotated list with keys of 1,637 vascular plants, of which 1,146 are native species. Replaces Dudley, W. R. The Cayuga flora. 1886. (Mostly in Seneca, Cayuga, and Tompkins Counties.)

Eames, A. J., and others. Vascular plants (Pteridophyta and Spermatophyta). In A preliminary biological survey of the Lloyd-Cornell Reservation . . . *Bul. Lloyd Libr. Bot., Pharm. and Mat. Med.* 27 (Entom. Ser. no. 5): 25-52. 1926.

General features of flora; annotated list of vascular plants. This is followed by lists of cellular plants by other authors. The region covered is 15 miles northeast of Ithaca and 1 mile east of McLean, in Tompkins County.

Willis, O. R. Report of the flora of Westchester County. In Bolton, Robert. The history . . . of the county of Westchester . . . Revised. v. 1, p. 771-825. New York, 1881. (Reprinted.)

Geology, etc.; annotated list of 1,188 vascular plants.—See also Britton, E. G. Additions to the Westchester County flora. *Bul. Torrey Club* 13: 6-7. 1886.—Day, E. H. Additions . . . l. c. 13: 94-95. 1886.—Martens, J. W., jr. [Additions.] l. c. 16: 123-124. 1889.

Winchell, Alexander. Catalogue of plants found growing without cultivation in the vicinity of Amenia Seminary, Dutchess County, N. Y. *Ann. Rpt. Regents Univ. State N. Y.* 64: 256-279. 1851.

Unannotated list of vascular plants and Characeae.

Wright, John, and Hall, James. A catalogue of plants, growing without cultivation, in the vicinity of Troy. 42 p. 23 cm. Troy, 1836.

Annotated alphabetical list of vascular plants. (Rensselaer County.)

Zabriskie, J. B. A catalogue of plants indigenous and cultivated, found in the vicinity of Erasmus Hall. Ann. Rpt. Regents Univ. State N. Y. [1834]: 176-181. 1835.

Unannotated alphabetical list of vascular plants and a few fungi. (Kings County.)

Zenkert, C. A. The flora of the Niagara frontier region. Ferns and flowering plants of Buffalo, N. Y., and vicinity. Bul. Buffalo Soc. Nat. Sci. v. 16. x, 328 p. illus., map. 1934.

Botanical investigations, topography, geology, climate, life zones, human changes; annotated list of 1,587 species and 115 varieties; ecology, plant societies, bibliography. Covers a radius of about 50 miles around Buffalo, including a part of the Niagara Peninsula, Ontario. Replaces Day, D. F. The plants of Buffalo . . . l. c. 4: 65-279. 1882-84 (reprinted as A catalogue of the native and naturalized plants of the city of Buffalo and its vicinity . . . 1884); and naturalized plants of the city of Buffalo and its vicinity . . . 1884; 5: 85-96. 1886, and also his Catalogue of the Niagara flora. Ann. Rpt. Commrs. State Reserv. Niagara 4: 67-133. 1888. (Reprinted 67 p.)

NORTH CAROLINA

See also Tennessee (Cain); Virginia (Kearney).

General

Coker, W. C., and Totten, H. R. The trees of North Carolina. 106 p. 20.5 cm. Chapel Hill, 1916.

Annotated list of 167 trees, with key to species.—See also Ashe, W. W. Additions to the arborescent flora of North Carolina. Jour. Elisha Mitchell Sci. Soc. 34: 130-140. 1918.

Hyams, C. W. The flora of North Carolina from Ranunculaceae to Salvinaceae. Bul. North Carolina Agr. Expt. Sta. 164. p. 287-365. 1899.

List of 2,685 species of vascular plants, their distribution within the State indicated by letters. Replaces the "Catalogue of the indigenous and naturalized plants of the State," by M. A. Curtis, in Agriculture of North Carolina, pt. 3. 156 p., 1867, and "A preliminary list of additions to Curtis' Catalogue . . . flowering plants," by M. E. Hyams in Jour. Elisha Mitchell Sci. Soc. 1884/85: 72-76. 1885.

Medicinal plants which have been collected and used in North Carolina. Bul. North Carolina Agr. Expt. Sta. 150. p. 327-409. 1898.

Briefly annotated systematic list.

Local

Blomquist, H. L., and Oosting, H. J. A guide to the spring and early summer flora of the Piedmont, North Carolina. 2d ed. xviii, 138 p. 23 cm. Durham, 1936. (1st ed., A guide to the spring flora of the Lower Piedmont, North Carolina, 1934.)

Annotated list of vascular plants, with keys; glossary.

Coker, W. C. A visit to Smith Island. Jour. Elisha Mitchell Sci. Soc. 34: 150-153. pl. 10-16. 1918.

Includes list of woody plants observed by the author in April. (Off the coast of Brunswick County.)

The woody plants of Chapel Hill, North Carolina. Jour. Elisha Mitchell Sci. Soc. 19: 42-49. 1903. (Reprint 8 p.)

List of 133 native trees, shrubs, and woody vines, with date of first flowering. (Orange County.)

Croom, H. B. A catalogue of plants, native or naturalized, in the vicinity of New Bern, North Carolina; with remarks and synonyms. [2d ed.] x, 52 p. 23.5 cm. New York, 1837. (1st ed., 1833.)

Unannotated list of vascular plants, with occasional critical notes in an appendix. (Craven County.)

Ewing, C. O., and Stanford, E. E. Botanicals of the Blue Ridge. Jour. Amer. Pharm. Assoc. 8: 16-26. illus. 1919.

Account of general features of region and of method of collecting crude drugs, with enumeration of the more important species. The Blue Ridge, in western North Carolina and Virginia, is the chief source of native botanic drugs in the United States.

House, H. D. Woody plants of western North Carolina. 34 p. 22.5 cm. Darmstadt, 1913.

Plant zones, list of endemic species; annotated systematic list of trees, shrubs, and woody vines.

Kearney, T. H. The plant covering of Ocracoke Island; a study in the ecology of the North Carolina strand vegetation. Contrib. U. S. Natl. Herb. 5: 261-319. fig. 33-50. 1900.

Mainly ecological, but includes list of cellular and vascular plants; bibliography. (Hyde County.)

Lewis, I. F. The vegetation of Shackleford Bank. Econ. Paper North Carolina Geol. and Econ. Survey no. 46. 32 p. 11 pl. (incl. map). 1917.

Topography, climate, plant formations, general features of flora, soil-binders, etc.; list of vascular plants. (A sand reef on coast between Beaufort Inlet and Cape Lookout, Carteret County.)

McAtee, W. L. Notes on the flora of Church's Island, North Carolina. Jour. Elisha Mitchell Sci. Soc. 35: 61-75. 1919.

General features of flora; annotated list of vascular plants collected by the author. (Currituck County.)

Memminger, E. R. A list of plants growing spontaneously in Henderson County, N. C. Jour. Elisha Mitchell Sci. Soc. 30: 126-149. 1915.

Unannotated list of vascular plants.

Peattie, D. C. Flora of the Tryon region of North and South Carolina. An annotated list of plants growing spontaneously in Polk County, North Carolina, and adjacent parts of South Carolina, in Greenville and Spartanburg Counties. Jour. Elisha Mitchell Sci. Soc. 44: 95-125, 141-229. 1928-29; 45: 59-100, 245-290. 1929-30; 46: 129-160. 1931.—Additions, corrections and deletions . . . l. c. 53: 311-323. 1937.

Botanical explorations, physiography, soils, climate; annotated list of 1,155 vascular plants.

Small, J. K., and Heller, A. A. Flora of western North Carolina and contiguous territory. Mem. Torrey Club 3: 1-36. 1892.

Includes list of species collected by authors. (Mainly in Blue Ridge at Grandfather Mountain, Table Rock, Blowing Rock, Stone Mountain, etc.)

Wood, T. F., and McCarthy, Gerald. Wilmington flora; a list of plants growing about Wilmington, N. C., with date of flowering. Jour. Elisha Mitchell Sci. Soc. 3: 77-141. map. 1886. (Reprinted 69 p.)

Partly annotated list of 1,217 vascular plants. (New Hanover County.)

NORTH DAKOTA

General

Bergman, H. F. Flora of North Dakota. Bien. Rpt. Agr. Col. Survey North Dakota 6 (1911-12): 151-372. [1913.] (Reprinted.)

Botanical explorations, physiography, types of vegetation, etc.; annotated list of vascular plants, with keys. The 15-page index follows the index of the whole volume, also two unnumbered pages of corrections.—For additions, see Metcalf, F. P. Notes on North Dakota plants. Jour. Washington Acad. Sci. 10: 188-198. 1920.—Also Stevens, O. A. New records and other notes on North Dakota plants. Bul. Torrey Club 49: 93-105. 1922.

Lunell, Joel. Enumerantur plantae Dakota Septentrionalis vasculares, I-XIV. Amer. Midl. Nat. 4: 152-165, 211-228, 229-244, 297-310, 355-366, 409-418, 419-431, 467-487, 503-517. 1915-16; 5: 1-13, 31-46, 55-71, 93-98, 233-241. 1917-18.

Annotated list of 1,311 species and varieties. Remarkable for its nomenclature, which recognizes no dividing line in 1753, but takes generic names from such authors as Dioscorides, and binomials from Fuchs and others of like date. Many of the largest Linnaean genera appear under unfamiliar and botanically indefensible names, as *Tessenia* for *Erigeron*, *Cunigunda* for *Eupatorium*, and *Eupatorium* for *Agrimonia*.

Local

Bell, W. B. The plants of the Williston area. Ann. Rpt. Agr. Expt. Sta. North Dakota 18 (1): 53-75. 1908. (Also in Bien. Rpt. Agr. Col. Survey North Dakota 4 (1907-08): 28-51. 1910.)

Annotated list of spermatophytes, the families arranged alphabetically. (Williams County.)

Report on the plant survey of the Morton area in Morton County, North Dakota. Bien. Rpt. Agr. Col. Survey North Dakota 5 (1909-10): 34-60. 1910.

Annotated list of vascular plants.

Bergman, H. F. A report on the plant survey of Barnes County, N. Dak. Bien. Rpt. Agr. Col. Survey North Dakota 6 (1911-12): 121-150. 3 pl. [1918.] Topography, climate, plant formations; annotated list of vascular plants.

Stevens, O. A. Plants of Fargo, North Dakota, with dates of flowering. Amer. Midl. Nat. 7: 54-62, 79-100, 135-156. 1921.

Physiography, soil, etc.; annotated list of flowering plants; list of flowers arranged according to flowering date. (Cass County.)

OHIO

General

Bigelow, J. M. To the medical profession of Ohio. Ohio Med. and Surg. Jour. 2: 97-143. 1849. (Reprinted, 47 p., with title: A list of the medicinal plants of Ohio.)

Annotated list of 202 medicinal plants of Ohio.

Detmers, Frederica. Medicinal plants of Ohio. Ohio Nat. 10: 55-60, 73-85. 1910.

Briefly annotated list of wild and commonly cultivated cellular and vascular plants used in medicine.

Kellerman, W. A. Bibliography of Ohio botany. Bul. Ohio Agr. Expt. Sta. Tech. Ser. 1: 180-201. 1893.—Additions . . . Ann. Rpt. Ohio Acad. Sci. 4: 5-18. 1896.

Annotated list of works referring particularly to Ohio plants, chronologically arranged. The additions carry this list through 1895.—Essentially the same material is given in the prefatory matter of Kellerman, W. A., and Werner, W. C. Catalogue of Ohio plants. Rpt. Geol. Survey Ohio 7 (2): 53-79. 1893.

Miller, E. M. Bibliography of Ohio botany. Bul. Ohio Biol. Survey 27 (v. 5, no. 4): 281-376. 1932. (Ohio State University Bulletin v. 37, no. 5.)

Mostly unannotated list of publications (1755-1931), arranged alphabetically by authors.

Schaffner, J. H. Field manual of the flora of Ohio and adjacent territory. 638 p. 17.5 cm. Columbus, 1928.

Bibliography; flora of vascular plants in form of keys; glossary.

Poisonous and other injurious plants of Ohio. Ohio Nat. 4: 16-19, 32-35, 69-73. 1904.

Briefly annotated systematic list of 229 cellular and vascular plants.

Revised catalog of Ohio vascular plants, arranged according to the phyletic system of classification; with notes on the geographic distribution in the State, based mainly on specimens in the Ohio State herbarium of the Ohio State University. Bul. Ohio Biol. Survey 25 (v. 5, no. 2): 87-215. 3 maps. 1932. (Ohio State University Bulletin v. 36, no. 9.)—Additions I-VII. Ohio Jour. Sci. 33: 288-294. 1933; 34: 165-174. 1934; 35: 297-303. 1935; 36: 195-203. 1936; 37: 260-265. 1937; 38: 211-216. 1938; 39: 232-234. 1939.

Bibliography, phytogeographical regions; annotated list of 2,309 species (plus varieties) of vascular plants. Replaces Kellerman, W. A. The fourth State catalogue of Ohio plants . . . (1899) and its 3 supplements. The 7th list of additions is by Schaffner and C. H. Jones.

Trees of Ohio and surrounding territory; including the area westward to the limits of the prairie and south to the thirty-seventh parallel. Proc. Ohio Acad. Sci. 5: 71-191. 1909. (Spec. Paper Ohio Acad. Sci. no. 15.)

Annotated list, including many cultivated species, with keys.—See also his Check list of Ohio shrubs. Ohio Nat. 8: 205-209. 1907.

Local

Aiken, W. H. Catalogue of the ferns and flowering plants of Cincinnati, Ohio, and vicinity. Bul. Lloyd Libr. 15 (Bot. Ser. 1). 57 p. 1911.

Botanical collectors and publications; annotated list of vascular plants. (Hamilton County.)

——— Check list of Hamilton County, Ohio, plants exclusive of the lower cryptogams. Jour. Cincinnati Soc. Nat. Hist. 20: 199-230. 1904.

Climate, bibliography, etc.; unannotated list of vascular plants.

——— List of medicinal plants, wild or cultivated, growing in the vicinity of Cincinnati, Ohio, with notes as to the parts used for medicinal purposes. Jour. Cincinnati Soc. Nat. Hist. 20: 231-234. 1904.

Systematic list. (Hamilton County.)

[Bigelow, J. M., and Hor, Asa.] *Florula lancastriensis*; or a catalogue comprising nearly all the flowering and filicoid plants, growing naturally within the limits of Fairfield County, with notes of such as are medicinal. Proc. Med. Conv. Ohio 1841: 49-79. 1841. (Reprinted, 33 p. Lancaster, 1841.)

Unannotated list of vascular plants; annotated list of 190 medicinal plants. Another issue of same date, 22 pages, contains only the unannotated list.

Braun, E. L. The Lea herbarium and the flora of Cincinnati. Amer. Midl. Nat. 15: 4-75. map. 1934.

Plant communities, changes in flora, bibliography; list of 1,302 species and varieties of vascular plants growing within a radius of 20 miles around Cincinnati, with occasional annotations. The herbarium of Thomas G. Lea, collected in 1834-44 and now at the Academy of Natural Sciences of Philadelphia, includes 714 species from the region. (Hamilton and Clermont Counties, Ohio, and Boone, Kenton, and Campbell Counties, Ky.)

Craig, Moses. A catalogue of the uncultivated flowering plants growing in the Ohio State University grounds. Bul. Ohio Agr. Expt. Sta. Tech. Ser. 1: 49-110. map. 1890.

Geology, phenology, etc.; annotated list of 468 angiosperms.—See also Kellerman, W. A., and Werner, W. C. Corrections and additions . . . l. c. 1: 224-232. 1893. (Franklin County.)

Foltz, K. O. The phaenogamic flora of Summit County, —Pt. I. Ann. Rpt. Ohio State Acad. Sci. 2: 21-31. [1894.]

Unannotated list of spermatophytes. No more published.

Griggs, R. F. A botanical survey of the Sugar Grove region. Bul. Ohio Biol. Survey 1 (3): 245bis-340 (incl. 29 fig., pl., map). 1914. (Ohio State University Bulletin v. 23, no. 25.)

Geology, ecology, etc.; partly annotated list of 972 vascular plants. The area covered is in Fairfield and Hocking Counties.

Jones, H. L. Catalogue of the phanerogams and ferns of Licking County, Ohio. Bul. Scient. Lab. Denison Univ. 7. 102 p. map. 1892.—Additions and corrections to the flora. l. c. 8 (2): 3-6. 1894.

Geology, climate, special localities; annotated list of 945 vascular plants.

Kellerman, W. A., and Jennings, O. E. Flora of Cedar Point. Ohio Nat. 4: 186-190. 1904.—Additions . . . I. (Kellerman and H. H. York) l. c. 6: 540. 1906.—Additions . . . II. (O. E. Jennings) l. c. 6: 544-545. 1906.—Additions . . . III. (M. E. Stickney, J. H. Schaffner, and C. A. Davies) l. c. 10: 61-63. 1910.

Unannotated list of vascular plants.—See also Additions . . . of 1911-12, by E. L. Fullmer. l. c. 12: 473. 1912; 13: 78. 1913. (Erie County.)

Moore, D. M. A botanical survey of the campus of Denison University. Jour. Scient. Lab. Denison Univ. 20: 131-153. 7 fig., pl. 17-19 (incl. map). 1923.

Physiography, general features of flora; list of 321 vascular plants. (In Granville, Licking County.)

Morgan, A. P. Flora of the Miami Valley, Ohio. 60 p. 17 cm. Dayton, Ohio, 1878.—Supplement . . . for 1878. p. 61-68. [n. d.]

Unannotated list of vascular and cellular plants. The area covered is not further defined than in the title.

Moseley, E. L. Flora of the oak openings west of Toledo. Proc. Ohio Acad. Sci. 8: 79-134. map. 1928. (Spec. Paper Ohio Acad. Sci. no. 20.)

Origin of "oak openings," a sandy tract in Lucas, Fulton, and Henry Counties, about 130 square miles in area, soil, changes in flora, etc.; annotated list of vascular plants.

Moseley, E. L. Sandusky flora. A catalogue of the flowering plants and ferns growing without cultivation, in Erie County, Ohio, and the peninsula and islands of Ottawa County. Spec. Papers Ohio State Acad. Sci. no. 1. 167 p. map. 1899.

Climate, geology, etc.; annotated list of over 1,100 vascular plants.—See also Griggs, R. F. Additions to the Sandusky flora. Ohio Nat. 1: 97-98. 1901.

Pieters, A. J. The plants of western Lake Erie, with observations on their distribution. Bul. U. S. Fish Comm. 21: 57-79. pl. 11-20. 1901. (Reprinted.)

Mainly ecological; includes alphabetical list (p. 77-79) of cellular and vascular plants.

Roth, Conrad. Vascular plants of Scioto County. In Bannon, H. T. Stories old and often told, being chronicles of Scioto County, Ohio. p. 245-266. Baltimore, 1927.

Unannotated list.

Selby, A. D., and Craig, Moses. A preliminary list of the plants of Franklin County, Ohio. Ann. Rpt. Columbus Hort. Soc. 1890, pt. 2. 19 p. 1891.—Additions . . . 1. c. 1891. 1 leaf. 1892.

Unannotated list of 1,069 vascular plants.

Wetzstein, Albert. Pteridophyta and Spermatophyta found in Auglaize County, Ohio. Proc. Ohio State Acad. Sci. 4 (7, Ann. Rpt. 14): 353-364. 1906.

Barely annotated list of vascular plants.

Wright, A. A. Preliminary list of the flowering and fern plants of Lorain County, Ohio. 30 p. map. 23 cm. Oberlin, 1889.—Additions . . . 11 p. map. 23 cm. Oberlin, 1893. [Oberlin College Laboratory Bulletin no. 1 and Suppl.]

Unannotated list of vascular plants. The annotated list of additions brings the total to 975 forms (931 species).

OKLAHOMA

General

See also Arkansas (Evans; Palmer, The ligneous flora of Rich Mountain); Texas (Tharp).

Bogue, E. E. An annotated catalog of the ferns and flowering plants of Oklahoma. Bul. Oklahoma Agr. Expt. Sta. 45. 48 p. 1900.

Annotated list of about 750 vascular plants.

Jeffs, R. E., and Little, E. L. A preliminary list of ferns and seed plants of Oklahoma. Pub. Univ. Oklahoma Biol. Survey. 2: 39-101. 1930. (Contr. Dept. Bot. Univ. Oklahoma n. s. no. 1.)

Physiography, floral areas, botanical explorations; unannotated list of vascular plants; bibliography.—For additions see Little, E. L., and Olmsted, C. E. New records of flowering plants from southeastern Oklahoma. Proc. Oklahoma Acad. Sci. 15: 44-49. 1935. See also for key to species included in the 1930 publication (excluding grasses, sedges, etc.), Jeffs, R. E. A key to the ferns and seed plants of Oklahoma. 147 p. 27.5 cm. Norman, 1931. (Processed publication.)

Shannon, C. W. The trees and shrubs of Oklahoma. Cir. Oklahoma Geol. Survey 4. 41 p. 1913.

Annotated list.—See also Phillips, G. R., Gibbs, F. J., and Mattoon, W. R. Forest trees of Oklahoma . . . ed. 5, rev. Pub. Oklahoma Div. Forestry no. 1. 135 p. illus. (incl. map). 1939. (1st ed., 1927, by Mattoon and Phillips.)

Stemen, T. R., and Myers, W. S. Oklahoma flora . . . xxix, 706 p. 494 fig. 20 cm. Oklahoma City, 1937.

Annotated descriptive flora of vascular plants, with keys; the grasses, sedges, and rushes omitted; lists of hay-fever, poisonous, drug, and edible plants, etc.—For a critical review, see Fernald, M. L. A flora of Oklahoma. Rhodora 40: 179-183. 1938.

Local

Eskew, C. T. The flowering plants of the Wichita Mountains Wildlife Refuge. Amer. Midl. Nat. 20: 695-703. 1938.

Topography, botanical explorations, climate, ecology; unannotated list of 447 spermatophytes; bibliography. (Comanche County.)

Little, E. L. Flora of Muskogee County, Oklahoma. Amer. Midl. Nat. 19: 369-389. 1938.

Botanical explorations, relationships of flora, biological spectrum of flora; briefly annotated list of 829 vascular plants; bibliography.

— and Olmsted, C. E. Trees and shrubs of the southeastern Oklahoma protective unit. Proc. Oklahoma Acad. Sci. 16: 52-61. 1936.

Topography, climate, botanical explorations, ecology; annotated list of 152 woody plants; bibliography. (Northern McCurtain, southern Le Flore, and eastern Pushmataha Counties.)

Vestal, P. A., and Schultes, R. E. The economic botany of the Kiowa Indians as it relates to the history of the tribe . . . xiii, 110 p. (incl. 1 fig. (map), 4 pl.). 27 cm. Cambridge, Mass., 1939.

History of tribe; annotated list of cellular and vascular plants used, with vernacular names, referring principally to Oklahoma; list of plants classified by uses, etc.; bibliography.

OREGON

See also Idaho (Spinden); Washington (Piper and Beattie); British Columbia (Brown).

General

Hemenway, A. F. Botanists of the Oregon country. Quart. Oregon Hist. Soc. 5: 207-214. 1904.

Account of botanical collectors in Oregon, Washington, Idaho, and adjacent States, from Haenke to Howell.

Sheldon, E. P. The forest wealth of Oregon. 32 p. 4 pl. 20 cm. Portland, 1904.

History, economic value; annotated list of trees, with uses.

Local

Applegate, E. I. Plants of Crater Lake National Park. Amer. Midl. Nat. 22: 225-314 (incl. 3 pl.). 1939.

Topography, general features of flora, botanical explorations; annotated list of about 570 species and forms of vascular plants, with keys and brief descriptions. (Klamath County.)

Benson, G. T. The trees and shrubs of western Oregon. Contrib. Dudley Herb. Stanford Univ. v. 2. 170 p. map. 1930.

Plant zones; annotated list with synonymy, type locality, local range, and citation of specimens. Refers primarily to the region west of the Cascade Mountains.

Coville, F. V. Notes on the plants used by the Klamath Indians of Oregon. Contrib. U. S. Natl. Herb. 5: 87-108. 1897.

Annotated systematic list of useful plants; list of Indian names, with botanical equivalents. (Klamath County.)

Gilkey, H. M., and Powell, G. M. Handbook of northwest flowering plants. vi, 407 p. illus. 20 cm. Portland, Ore., 1936.

A popular work with brief descriptions, covering the region in Oregon and Washington from the summit of the Cascade Mountains to the coast, south to Lane County, Oregon, omitting northern Washington. The grasses, sedges, rushes, and willows are omitted.

Gorman, M. W. The flora of Mount Hood. Oregon Out of Doors 1 (1): 64-96. 1920.

Physiography, etc.; annotated list of 283 vascular plants found above 2,000 feet elevation. Replaces Howell, Thomas. The flora of Mount Hood. Mazama 1: 28-48. 1896. Mount Hood is in Hood River, Multnomah, Clackamas, and Wasco Counties.

Gorman, M. W. List of plants in the vicinity of Portland, Oregon. *Muhlenbergia* 2: 351-416. 1916-17.

Annotated list of "835" vascular plants, never published in full. Reaches *Malva* (Engler and Prantl system), p. 416. (Multnomah County.)

House, H. D. Vegetation of the Coos Bay region, Oregon. *Muhlenbergia* 9: 81-100. 1914.

General features of flora; list of about 210 vascular plants collected by author in 1911-12, with data. (Coos County.)

Leach, Lilla. Wildflowering in the Willows. *Mazama* 13: 50-60. illus. 1931.

Includes unannotated list of vascular plants collected by Lilla and John R. Leach. The Willows Mountains are in southern Willows and Union and northern Baker Counties.

Nelson, J. C. A list of Oregon plants not mentioned in the local manuals. *Muhlenbergia* 2: 345-350. 1916.

List of 63 species, mostly introduced plants, with localities.

Peck, M. E. Flora of the east slope of the Cascade Mountains, in Crook County, Oregon. *Proc. Iowa Acad. Sci.* 22: 143-164. 1915 (1916).

General features of flora; annotated list of vascular plants.

— A section of Upper Sonoran flora in northern Oregon. *Proc. Iowa Acad. Sci.* 23 (1916): 317-334. [1917?]

Physiography, plant associations; annotated list of angiosperms collected by the author in 1915 near Umatilla, Umatilla County, on the south bank of the Columbia River.

Wynd, F. L. The flora of Crater Lake National Park. *Amer. Midl. Nat.* 17: 881-949. 1936.

Bibliography; unannotated list of vascular plants, with keys. (Klamath County.)

PENNSYLVANIA

See also New York (Clute; Taylor, Flora of the vicinity of New York).

General

Illick, J. S. Pennsylvania trees. *Bul. Penn. Dept. Forestry* 11. 5th ed. 237 p. plates. 1925. (Reprinted, 1928. 1st ed., 1914.)

Includes systematic descriptive list of trees with plate of each species.

Porter, T. C. Flora of Pennsylvania . . . Edited with the addition of analytical keys by J. K. Small. xv, 362 p. map. 24 cm. Boston, 1903.

Annotated list of 2,201 species of spermatophytes, with keys. For the vascular cryptogams, see his Catalogue of the Bryophyta . . . and Pteridophyta . . . found in Pennsylvania. 66 p. Boston, 1904.

Local

Baron, J. J. Floral life of western Pennsylvania: a bibliography. *Trillia* 8: 45-57. 1925.

Partly annotated list of botanical publications, alphabetically arranged by authors.

Benner, W. M. The flora of Bucks County, Pennsylvania. 331 p. 24 cm. Philadelphia, 1932.—Additions . . . *Bartonia* 15: 32-34. 1933.

Topography, geology, soils, climate, phytogeography, botanical history, etc.; annotated list of vascular plants; bibliography.

[Christy, C. W.] Preliminary check-list of the flora of Crawford County, Pa. [12] p. 23 cm. [n. p., ante 1891.]

Unannotated list of vascular plants.

Claypole, E. W. Catalogue of the names of plants found in Perry County during the summer of 1882 and 1883. In his Preliminary report on the palaeontology of Perry County . . . *Rpt. Prog. 2d Geol. Survey Penn.* F²: 113-145. 1885.

Unannotated list of vascular plants.

Darlington, William. Flora cestricea. An attempt to enumerate and describe the flowering and filicoid plants of Chester County, in the State of Pennsylvania.

With brief notices of their properties, and uses, in medicine, domestic and rural economy, and the arts. xxiii, 640 p. map. 19 cm. West-Chester, Pa., 1837.

Descriptive flora of 1,073 vascular plants, on the Linnaean system.—For additions, see Stone, H. E. A centennial survey of the Chester County flora. *Bartonia* 11: 36-48. 1929.—The "third edition" (1853) of Darlington's work has less detailed descriptions.

Dolph, J. M. [A list of the plants of Wayne County, Pa.] In White, I. C. The geology of Susquehanna County and Wayne County. *Rpt. Prog. 2d Geol. Survey Penn. G²*: 31-37. 1881.

Unannotated list of vascular plants.

Fussell, Linnaeus. List of Delaware County plants. *Proc. Delaware Co. Inst. Sci.* 1: 49-76. 1906.

Unannotated list of "something less than 1400 species" of vascular plants.—See also Pennell, F. W. Some additions . . . *l. c.* 4: 68-74. 1909.

Heller, A. A. Preliminary report on the flora of Luzerne County, Penn. *Bul. Torrey Club* 20: 55-67. 1893.

General features of flora; list of 325 vascular plants, with localities.

Illick, J. S. Woody plants of Franklin County, Pennsylvania. *Bul. Penn. Dept. Forestry* 21. 42 p. 1921.

Annotated list of 247 native and cultivated woody plants. Revision and enlargement of his Check-list of the woody plants of a portion of the South Mountains near Mont Alto . . . 1913.

Jennings, O. E. A botanical survey of Presque Isle, Erie County, Pennsylvania. *Annals Carnegie Mus.* (Pittsburgh) 5: 289-421. 4 fig. (maps), pl. 22-51 (incl. tab. and map). 1909.

Physiography, ecology, with footnote references; unannotated list of 439 vascular plants.

Keller, I. A., and Brown, Stewardson. Handbook of the flora of Philadelphia and vicinity, containing data relating to the plants within the following radius: eastern Pennsylvania, north to the Blue Mountains, and west to the Susquehanna; all of New Jersey except the northern counties; and New Castle County, Delaware. With keys for identification of species. viii, 360 p. 23 cm. Philadelphia, 1905.

Annotated list of vascular plants, with keys.—For additions (primarily supplementing the presentation of the Philadelphia flora given in Taylor, N., *Flora of the vicinity of New York*) see Long, Bayard. Some changes in the aspect of the list of the Philadelphia flora. *Bartonia* 8: 12-32. 1924; also his *Some noteworthy indigenous species new to the Philadelphia area.* *l. c.* 10: 30-52. 1929.

Kelly, J. P. The ferns and flowering plants of central Pennsylvania. 120 p. illus. (incl. map). 19 cm. State College, Pa., 1937. (Pennsylvania state college studies, v. 2, no. 1.)

General ecological features; unannotated list of 1,166 vascular plants in form of keys, without authorities for botanical names, covering region within 35 miles of State College, Centre County, including parts of adjacent counties.

King, W. L. The flora of Northampton County, Pennsylvania. *Torreya* 12: 97-107, 124-132, 165-173, 183-189, 208-215. 1912.

Geography, geology, climate; annotated list of 1,304 vascular plants.—For additions see Rau, E. A. Notes on the flora of Northampton County . . . *l. c.* 12: 287-289. 1912.

Kline, W. A., Brendle, T. R., and Mumbauer, J. R. A preliminary list of the flora of the Perkiomen region . . . 41 p. 24 cm. [n. p.,] 1924.

Bibliography; annotated list of vascular plants collected by the authors. (Montgomery County.)

Lick, D. E., and Brendle, T. R. Plant names and plant lore among the Pennsylvania Germans. 300 p. illus. 25 cm. Lancaster, Pa., 1927.

Annotated list of wild and cultivated plants, with vernacular names and much interesting and curious information about uses; bibliography. Originally published as Pennsylvania German Society. Proceedings and addresses . . . v. 33, pt. 3. 1923.

Lutz, H. J. The vegetation of Heart's Content, a virgin forest in northwestern Pennsylvania. *Ecology* 11: 1-29. 9 fig. (incl. maps), pl. 1. 1930.—Additions . . . *l. c.* 15: 295-297. 1934.

Ecological: includes (p. 11-13) tabular list of vascular plants. (In Watson Township, Warren County.)

Miller, John. *Flora of Erie County, Pennsylvania*. 47 p. port. 23 cm. [Erie, 1923.]

Annotated list of 1,184 species and 36 varieties of vascular plants.

Pennell, F. W. *Flora of the Conowingo Barrens of southeastern Pennsylvania*. *Proc. Acad. Nat. Sci. Phila.* 62: 541-584. 1910-11.—Further notes . . . l. c. 64: 520-539. 1913.

Climate, physiography, soil, composition of flora; annotated list of 217 vascular plants, with supplementary list of "occasional species" (77) and "prominent introduced species" (7). The area covered is the "Conowingo or Serpentine Barrens in Chester and Delaware counties." The supplement contains also records from the serpentine barrens of Centerville, New Castle County, Del.

Shafer, J. A. A preliminary list of the vascular flora of Allegheny County, Pennsylvania. *Annals Carnegie Mus. (Pittsburgh)* 1: 14-127. 1901.

List of vascular plants, with few annotations.—See also Jennings, O. E. Additions and corrections . . . l. c. 3: 473-479. 1906, the latter bringing the total to about 991 species.

Small, J. K., and Carter, J. J. *Flora of Lancaster County: being descriptions of the seed-plants growing naturally in Lancaster County, Pennsylvania*. xvi, 336 p. 23.5 cm. New York, 1913.

Physiography, etc.; descriptive flora of spermatophytes, with keys.

Smith, A. H. On colonies of plants observed near Philadelphia. *Proc. Acad. Nat. Sci. Phila.* [19]: 15-24. 1867.

Annotated list of 106 vascular plants occurring on waste ground along the Delaware River in Pennsylvania and New Jersey, in the vicinity of Philadelphia.—See also Burk, Isaac. List of plants recently collected on ships' ballast in the neighborhood of Philadelphia. l. c. 29: 105-109. 1877.—Also Martindale, I. C. More about ballast plants. *Bot. Gaz.* 2: 127-128. 1877.

Twining, Alfred. *Flora of northeastern Pennsylvania*. 89 p. (incl. port.). 23 cm. Scranton, Pa., 1917.

Annotated list of 1,534 vascular plants from the vicinity of the Lackawanna and Wyoming valleys. Replaces "A catalogue of the flowering plants and vascular cryptogams found in and near Lackawanna and Wyoming valleys," by W. R. Dudley and C. O. Thurston. 1892, and "Additions. . . ." 1895.

RHODE ISLAND

General

Providence Franklin Society. The ferns, fern allies and flowering plants of Rhode Island. A revision of the first fifty-eight pages of James L. Bennett's "Plants of Rhode Island" published by the Providence Franklin Society in 1888. 78 p. Providence, 1920.

Unannotated list, with reference to authority for inclusion of each species; bibliography. Unreliable; see critical review by M. L. Fernald, *Rhodora* 24: 96-100. 1922.

Local

Bailey, W. W. Notes on the flora of Block Island. *Bul. Torrey Club* 20: 221-239. 1893.

Soil, general features of flora; mostly unannotated list of 294 vascular plants collected by the author and J. F. Collins in 1892.—For additions see Hollick, A. *Annals N. Y. Acad. Sci.* 11: 63-70. 1898, also *Torrey* 6: 190. 1906. (Newport County.)

Davis, L. D. The trees and plants of Conanicut Island. *Proc. Newport Nat. Hist. Soc.* 8: 32-42. 1892.

General features of flora; unannotated list of angiosperms, the families arranged in a quite unintelligible order. (Newport County in Narragansett Bay.)

Reynolds, E. S. The flora of the Great Swamp of Rhode Island. *Rhodora* 9: 117-122. 1907.

Topography, botanical explorations, etc.; partial list of vascular plants collected. (Washington County.)

Rives, W. C., and Bailey, W. W. Native plants of the island of Rhode Island. *Proc. Newport Nat. Hist. Soc.* 3: 87-89. 1885; 4: 13-15. 1886; 5: 32-35. 1887; 6: 24. 1888.

Four unannotated lists of vascular plants of towns of Newport, Middletown, Portsmouth, etc. (Newport County.)

SOUTH CAROLINA

See also North Carolina (Peattie).

General

Elliott, Stephen. A sketch of the botany of South-Carolina and Georgia. 2 v. 12 pl. 22.5 cm. Charleston, 1821-24 (1816-24).

A classic among the earlier descriptive floras of the United States; now long out of date, but still the only available local treatise on the flora of the State. For dates of issue see Barnhart, J. H., *Bul. Torrey Club* 28: 680-688. 1901.

Porcher, F. P. Report on the indigenous medicinal plants of South Carolina. *Trans. Amer. Med. Assoc.* 2: 677-682. 1849.

List of about 410 plants, annotated as to uses.

Ravenel, H. W. A list of the more common native and naturalized plants of South Carolina. In *South Carolina*. Published by the State Board of Agriculture. p. 312-359. Charleston, 1883.

Nominal list, including only species with popular names; total number of vascular plants estimated at 1,810 species; bibliography.

Local

Bachman, John. Catalogue of phaenogamous plants and ferns, native or naturalized, found growing in the vicinity of Charleston (S. C.). *South. Agr.* 8: 189-196, 286-291. 1835. (Preprinted 1834. 15 p.)

Unannotated list of vascular plants, alphabetically arranged. (Charleston County.)

Coker, W. C. Observations on the flora of the Isle of Palms, Charleston, S. C. *Torreyia* 5: 135-145. 3 fig. 1905.

Descriptive account of vegetation, with included enumeration of species. (Charleston County.)

— The plant life of Hartsville, S. C. 129 p. 15 pl. 27 cm. Columbia, 1912.

Climate, geology, general features of flora, etc.; key to trees of Hartsville; annotated list of 628 vascular plants. (Darlington County.)

Gibbes, L. R. Botany of Edings' Bay. *Proc. Elliott Soc. Nat. Hist. Charleston, S. C.* 1: 241-248. 1859. (Reprint 8 p.)

Geology, etc.; unannotated list of 70 vascular plants; general features of flora. (Small island between north and south mouths of Edisto River, Charleston County.)

— A catalogue of the phaenogamous [sic] plants of Columbia, S. C. and its vicinity. 13 p. 20.5 cm. Columbia, 1835.

Unannotated tabular list on the Linnaean system, with notes on a few species. (Richland County.)

Ives, S. A., and Smith, X. A. The vascular plants of Horry County, South Carolina. *Furman Bul.* 20 (9): 25-40. 1938.

List of 600 vascular plants, annotated as to habitat.

McGregor, E. A. List of plants from Batesburg, S. C., and vicinity. *Jour. Elisha Mitchell Sci. Soc.* 33: 133-145. 1917.

Unannotated list of vascular plants collected by the author and now in the herbarium of Stanford University. (Lexington County.)

Porcher, F. P. A medico-botanical catalogue of the plants and ferns of St. John's, Berkeley, South-Carolina. *South. Jour. Med. and Pharm.* 2: 255-286, 397-417. 1847. (Reprinted as thesis, 55 p.)

Annotated alphabetical list of native medicinal plants, with bibliography; alphabetical tabular list of vascular plants. (Berkeley County.)

Weatherby, C. A., and Griscom, Ludlow. Notes on the spring flora of the coastal plain of South Carolina north of Georgetown. *Rhodora* 36: 28-55. 1 fig. 1934.

General features of flora; list of vascular plants collected by the authors in 1932, with data; short supplementary lists from Orangeburg, Lexington, and Saluda Counties.

SOUTH DAKOTA

See also Minnesota (MacMillan).

General

Over, W. H. Flora of South Dakota. An illustrated check-list of flowering plants, shrubs and trees of South Dakota. 161 p. illus., pl. 23 cm. Vermillion, 1932.

Annotated list of vascular plants.

— Trees and shrubs of South Dakota. Cir. So. Dakota Geol. and Nat. Hist. Survey 11. 13 p. 1923.

Annotated systematic list.

Saunders, DeAlton. Ferns and flowering plants of South Dakota. Bul. So. Dakota Agr. Expt. Sta. 64: 99-227. 1899.

Annotated list.—See also Visser, S. S. Additions to the flora of South Dakota. Muhlenbergia 9: 45-52, 69-77. 1913.

Local

Jones, S. R. Preliminary report on the flora and fauna of the eastern part of the Rosebud Reservation, now known as Gregory County. Bul. So. Dakota Geol. Survey 4: 123-142. 1908.

Plant regions, general features of flora; annotated list of vascular plants, also list of birds.

McIntosh, A. C. A botanical survey of the Black Hills of South Dakota. Black Hills Engineer 19: 157-276. 82 fig., map. 1931.

Topography, geology, soils, climate, botanical explorations, fossil plants, sources of flora, ecology; annotated list of 1,300 vascular plants; bibliography. The Black Hills are in Lawrence, Meade, Pennington, Custer, and Fall River Counties.

Reagan, A. B. Notes on the flora of the Rosebud Indian Reservation, South Dakota. Trans. Kansas Acad. Sci. 20: 191-196. 1906.

Soils, general features of flora; partly annotated list of vascular plants and 2 fungi. The same list of plants, omitting the fungi, is reprinted in Bul. So. Dakota Geol. Survey 4: 143-153. 1908. Also issued in German in Ber. Deut. Bot. Gesell. 25: 342-348. 1907. The Rosebud Indian Reservation includes Mellette, Todd, and Tripp Counties, and the eastern edge of Washabaugh and Bennett Counties.

Rydberg, P. A. Flora of the Black Hills of South Dakota. Contrib. U. S. Natl. Herb. 3: 463-536. pl. 17-20 (incl. map). 1896.

Geography, topography, floral areas, etc.; annotated list of vascular plants collected by the author.—See also Visser, S. S. Additions to the flora of the Black Hills. Torreyia 9: 186-188. 1909; Muhlenbergia 8: 135-137. 1913; 9: 33-39. 1913.—Also McIntosh, A. C. Additions . . . Black Hills Engineer 16: 160-167. 2 fig. 1928. (Includes bibliography.)

Visser, S. S. List of plants of Harding County, northwestern South Dakota . . . determined by Aven Nelson. Bul. So. Dakota Geol. Survey 6: 32-68. pl. 2-4. 1914.

Annotated list of 468 vascular plants, also some lichens and mosses; bibliography.

— Plants of the Pine Ridge Reservation. Collected by S. S. Visser, determined by Dr. P. A. Rydberg. Bul. State Geol. and Biol. Survey So. Dakota 5: 84-108. 1912.

Annotated list of vascular plants. The reservation includes Washington and Shannon and nearly all of Washabaugh and Bennett Counties.

TENNESSEE

General

Gattinger, Augustin. The flora of Tennessee and a philosophy of botany. 296 p. illus., port. 22 cm. Nashville, 1901.

General features of flora; annotated catalog of 2,218 vascular plants. The abbreviation "O. S.," not explained in the text, means "over the whole State."

— The medicinal plants of Tennessee . . . xxxi, 123 p. 22.5 cm. Nashville, 1894.

Descriptive flora of medicinal plants.

Local

Cain, S. A. Certain floristic affinities of the trees and shrubs of the Great Smoky Mountains and vicinity. *Butler Univ. Bot. Studies* 1: 129-150 (incl. 2 maps). 1930.

Phytogeographic; includes list of 248 woody plants, divided into groups according to geographical affinities; bibliography. (Eastern Tennessee.)

— An ecological study of the heath balds of the Great Smoky Mountains. *Butler Univ. Bot. Studies* 1: 177-208. 4 fig. 1930.

Includes lists of species. The area covered is along the Tennessee-North Carolina State line.

Freeman, C. P. Ecology of the cedar glade vegetation near Nashville, Tennessee. *Jour. Tenn. Acad. Sci.* 8: 141-228. 22 fig. 1933.

Includes (p. 198-205) list of vascular plants collected near La Vergne, Rutherford County.

Gattinger, Augustin. The Tennessee flora; with special reference to the flora of Nashville. *Phaenogams and vascular cryptogams*. 109 p. 22 cm. Nashville, 1887.

General features of flora; annotated list of 1,708 vascular plants, of which 1,251 occur within 30 miles of Nashville.

TEXAS

General

Cory, V. L., and Parks, H. B. Catalogue of the flora of Texas. *Bul. Texas Agr. Expt. Sta.* 550. 130 p. map. 1937 [1938].

Unannotated list of 5,099 species and varieties of vascular plants, their distribution indicated by districts. The paper is dated July 1937, but was actually issued, according to information furnished by Mr. Cory, on January 18, 1938.

Geiser, S. W. A century of scientific exploration in Texas, pt. 1: 1820-1880. *Field and Lab. So. Methodist Univ.* 4: 41-55. 1936; 7: 29-52. 1939.

Briefly annotated alphabetical list of collectors and explorers, with biographical references. The 1936 list reprinted with additions, in his *Naturalists of the frontier*, p. 317-336. [Dallas,] 1937.

Lewis, I. M. The trees of Texas. An illustrated manual of the native and introduced trees of the State. *Univ. Texas Bul.* 1915, no. 22. vi, 169 p. 48 fig. 1915.

Annotated descriptive treatment of the trees, of a popular nature.

Parks, H. B. Valuable plants native to Texas. *Bul. Texas Agr. Expt. Sta.* 551. 173 p. map. 1937 [1938].

Annotated list, with brief descriptions; distribution indicated by districts. The "value" of most of the species included is hypothetical. The paper is dated August 1937, but was actually issued, according to information furnished by Mr. Cory, on January 18, 1938.

Winkler, C. H. The botany of Texas. An account of botanical investigations in Texas and adjoining territory. *Univ. Texas Bul.* 1915, no. 18. 27 p. port. 1915.

Botanical collectors and authors; annotated bibliography of 121 titles.

Local

Blankinship, J. W. *Plantae Lindheimerianae*. Pt. III. *Rpt. Missouri Bot. Gard.* 18: 123-223. pl., port. 1907.

Intended to supplement and complete Parts I-II of "*Plantae Lindheimerianae*," by G. Engelmann and A. Gray (1845-50). Numbering of Lindheimer's specimens; biographical sketch; list of Lindheimer's nos. 449-573 of fascicle III (1845-46), nos. 652-754 of fascicle IV (1847-48), with names, data, and indication of those which were types of new species; similar list of nos. 652-1282 from Comal County and vicinity (1849-51); bibliography of Texas botany.

Clover, E. U. Vegetational survey of the lower Rio Grande valley, Texas. *Madroño* 4: 41-66, 77-100. illus. (incl. maps). 1937.

Botanical explorations, climate, topography, geology, drainage, local ecological nomenclature, plant associations; list of bryophytes and vascular plants col-

lected by the author, with localities; bibliography. Covers the area along the Rio Grande from Zapata County to the coast.

Coulter, J. M. Botany of western Texas. A manual of the phanerogams and peridophytes of western Texas. Contrib. U. S. Natl. Herb. v. 2. 588 p. 3 pl. 1891-94.

Descriptive flora of the vascular plants, intended to include all species west of the 97th meridian.

Fletcher, H. T. Notes on the vegetation of the Green Valley region. Pub. West Texas Hist. and Sci. Soc. 2: 6-50. 1928.

Physiography, climate, etc.; partly annotated list of vascular plants, with notes on uses. The region covered is in Brewster and Presidio Counties.

Hartman, Carl. A list of trees and shrubs occurring in the vicinity of Huntsville, Texas. Trans. Texas Acad. Sci. 12 (2): 66-90. 1913.

Soil, etc.; annotated list of 106 species. (Walker County.) Also in second issue of v. 12, pt. 2, p. 32-56. 1931.

Havard, Valery. Report on the flora of western and southern Texas. Proc. U. S. Natl. Mus. 8: 449-533. 1885.

Climate, topography, etc., with lists of species of different areas; annotated list of native economic plants.

Heller, A. A. Botanical explorations in southern Texas during the season of 1894. Contrib. Herb. Frankl. and Marshall Col. no. 1. 116 p. 9 pl. 1895.

Botanical regions, author's itinerary; annotated list of vascular plants collected mainly around Corpus Christi, Kerrville, and San Antonio.

Mackensen, Bernard. The trees and shrubs of San Antonio and vicinity. A handbook of the woody plants growing naturally in and about San Antonio, Texas. 51 p. illus. 19 cm. San Antonio, 1909.

Climate, soils, plant formations, general features of flora; annotated list of woody plants, with brief descriptions. (Bexar County.)

Metz, Mary Clare, sister. A flora of Bexar County, Texas. Contrib. Biol. Lab. Catholic Univ. Amer. no. 16. xiii, 214 p. map. 1934.

Botanical explorations, physiography, geology; annotated list of nearly 900 vascular plants, with keys.

Muller, C. H. Vegetation in Chisos Mountains, Texas. Trans. Texas Acad. Sci. 20: 3-31. 1937.

Topography, climate, general features of flora; annotated list of vascular plants collected by the author in 1931-32; bibliography. (Brewster County.)

Pace, Lula. McLennan County plants. In Adkins, W. S. Geology and mineral resources of McLennan County. Univ. Texas Bul. 2340: 183-197. 1923. Annotated list of vascular plants.

Palmer, E. J. The ligneous flora of the Davis Mountains, Texas. Jour. Arnold Arboretum 10: 8-45. 1929.

Physiography, climate, plant associations, botanical explorations, etc.; annotated list of woody plants. (Jeff Davis County.)

——— The ligneous flora of the Staked Plains of Texas. Jour. Arnold Arboretum 2: 90-105. 1920.

Physiography, general features of flora; annotated list of woody plants collected by the author in Randall and Armstrong Counties on the Llano Estacado.

Parks, H. B., Cory, V. L., and others. The fauna and flora of the Big Thicket area. 51 p. illus. (incl. map). 23 cm. [n. p.] 1936. (Reprinted, 1938.)

Includes unannotated list of vascular plants (p. 27-51). Cover title reads: Biological survey of the east Texas Big Thicket area. The area covered extends from southern Newton County north into Sabine County and west to Grimes County.

Sperry, O. E. A check list of the ferns, gymnosperms, and flowering plants of the proposed Big Bend National Park of Texas. Sul Ross State Teach. Col. Bul. 19 (4): 9-98. 2 fig. (incl. map). 1938.

Bibliography, gazetteer; list of vascular plants collected by the author and others, with localities. (Brewster County.)

Stillwell, Norma. Key and guide to native trees, shrubs and woody vines of Dallas County. 48 p. illus. 21.5 cm. Dallas, 1939.

Annotated systematic list of 86 species, with key and popular descriptions, the species of Cacti not enumerated; bibliography.

Tharp, B. C. Ecologic investigations in the Red River valley. In Sellards, E. H., and others. Investigations on the Red River . . . Univ. Texas Bul. 2327: 89-155. 1923.

Includes lists of spermatophytes observed in the area, chiefly in Wichita County, Texas, and adjacent Oklahoma.

Young, M. S. The seed plants, ferns, and fern allies of the Austin region. Univ. Texas Bul. 2065. 98 p. 1920.

Annotated list of vascular plants. (Travis County.)

UTAH

See also Nevada (Tidestrom).

Local

Chamberlin, R. V. The ethnobotany of the Goshute Indians of Utah. Mem. Amer. Anthropol. Assoc. 2: 329-405. 1911. (Also in Proc. Acad. Nat. Sci. Phila. 63: 24-99. 1911.)

Running account of useful plants; annotated list of scientific names, list of vernacular names. These Indians inhabit the desert country bordering on Great Salt Lake.

Eastwood, Alice. Report on a collection of plants from San Juan County, in southeastern Utah. Proc. Calif. Acad. Sci. II, 6: 270-329. pl. 44-46. 1897 (1896).

General features of flora; annotated list of 161 vascular plants (and Characeae) collected by the author in 1895.

Garrett, A. O. Spring flora of the Wasatch region. 5th ed. vi, 240 p. 20 cm. Salt Lake City, 1936. (1st ed., 1911.)

Keys and descriptions of spring flowering plants of eastern edge of Great Basin as far south as Manti.

Graham, E. H. Botanical studies in the Uinta Basin of Utah and Colorado. Annals Carnegie Mus. (Pittsburgh) v. 26. 432 p. 13 pl. (incl. map), fold. tab. 1937.

Botanical explorations, physiography, geology, climate, zones of vegetation, plant communities, phytogeography; bibliography; annotated list of 1,104 species and varieties of vascular plants. The region covered is in northeastern Utah and northwestern Colorado.

Presnell, C. C., and Patraw, P. M. Plants of Zion National Park. Zion-Bryce Mus. Bul. no. 1. 69 p. illus. 1937.

Annotated list of vascular plants, with brief popular descriptions of many species; authorities for botanical names not given. Processed publication of National Park Service. (Washington and Kane Counties.)

VERMONT

See also New Hampshire (Jesup).

General

Barnhart, J. H. The local floras of Vermont. Bul. Vermont Bot. Club. 2: 11-16. 1907.

Chronological list of 64 titles.

Burns, G. P., and Otis, C. H. The trees of Vermont. Bul. Vermont Agr. Expt. Sta. 194. 244 p. illus. 1916.

Annotated descriptive account, with figure of each species; wood anatomy of more important species.—See also Jones, L. R., and Rand, F. V. Vermont shrubs and woody vines. Bul. Vermont Agr. Expt. Sta. 145. p. 49-119. illus. 1909. (Popular account.)

Dole, E. J., ed. The flora of Vermont. 3d rev. ed. An annotated list of the ferns and seed plants of the State of Vermont. Compiled by a committee of the Vermont Botanical Club. xiv, 353 p. port. 22.5 cm. [Burlington ?], 1937.

Botanical explorations, geology, statistics; annotated list of 2,572 vascular plants (1,861 species). Replaces the Vermont Botanical Club's Flora of Vermont, published as Bul. Vermont Agr. Expt. Sta. 187. p. 137-258. 1915, which in turn replaced the Flora of Vermont, prepared by a committee consisting of E. Brainerd, W. W. Eggleston, and L. R. Jones and published as Contributions to the botany of Vermont no. 8. 1900.

Local

Flynn, N. F. Flora of Burlington and vicinity. A list of the fern and seed plants growing without cultivation. ix, 124 p. 23 cm. Burlington, 1911. (Contributions to the botany of Vermont, 9.)—Additions . . . Bul. Vermont Bot. Club 7: 16-17. 1912.

Annotated list of 1,240 vascular plants.—For additions, see Blake, S. F. Six weeks' botanizing in Vermont, I. Notes on the plants of the Burlington region. *Rhodora* 15: 153-168. 1913. (Chittenden County.)

Kennedy, G. G. Flora of Willoughby, Vermont. *Rhodora* 6: 93-134. pl. 54-56, map. 1904. (Reprinted.)—Additional notes from Willoughby. 1. c. 6: 148. 1904.

Geography, soils, botanical collectors, etc.; annotated list of 690 vascular plants. (Orleans County.)

Kittredge, E. M. Ferns and flowering plants of Woodstock, Vermont. 57 p. 16.5 cm. Woodstock, 1931.—Supplement . . . [7] p. 1936.—Grasses and sedges of Woodstock, Vermont. 27 p. Woodstock, 1939.

Annotated list of vascular plants. Supplements not seen. (Windsor County.)

VIRGINIA

See also District of Columbia (Hitchcock and Standley); Iowa (Pammel, Flora of northern Iowa peat bogs); North Carolina (Ewing and Stanford).

Local

Artz, Lena. Plants of the shale banks of the Massanutten Mountains of Virginia. *Claytonia* 3: 45-50. 1937; 4: 10-15. 1937.

Geology, characters and range of the most characteristic species; list of vascular plants; bibliography. The Massanutten Mountains lie along the boundary line between Shenandoah, Rockingham, Page, and Warren Counties.

Erlanson, E. W. The flora of the peninsula of Virginia. *Papers Mich. Acad. Sci.* 4: 115-182. 1925.

General features of flora; list of 1,052 vascular plants collected by E. J. Grimes and the author in 1920-21, with localities; bibliography. The "peninsula of Virginia" lies between the York and the James Rivers.

Fernald, M. L. Last survivors in the flora of Tidewater Virginia. *Rhodora* 41: 465-504, 529-559, 564-574. illus. (maps), pl. 570-583. 1939. (Contrib. Gray Herb. 128.)

Author's itinerary in 1938 and 1939, with notes on plants observed; annotated list of noteworthy species. (Southeastern Virginia.)

Local plants of the inner coastal plain of southeastern Virginia. *Rhodora* 39: 321-366, 379-415, 433-459, 465-491. pl. 474-487. 1937. (Contrib. Gray Herb. 120.)

Soils, running account of itinerary and collecting; critical notes on numerous vascular plants, phytogeography.

Noteworthy plants of southeastern Virginia. *Rhodora* 40: 364-424, 434-459, 467-485. pl. 509-535. 1938. (Contrib. Gray Herb. 123.)

Author's itinerary in 1937; annotated list of rarer species collected.

Plants from the outer coastal plain of Virginia. *Rhodora* 38: 376-404, 414-452. pl. 440-452. 1936. (Contrib. Gray Herb. 115.)

Phytogeography; critical notes on plants collected in 1935.

and Griscorn, Ludlow. Three days of botanizing in southeastern Virginia. *Rhodora* 37: 129-157, 167-189. pl. 332-351. 1935. (Contrib. Gray Herb. 107.)

Critical notes on plants collected by the authors in 1933 in Princess Anne and Norfolk Counties.—See also Fernald, M. L. Midsummer vascular plants of southeastern Virginia. 1. c. 37: 378-413, 423-454. pl. 384-405. 1935. (Contrib. Gray Herb. 109.)

Kearney, T. H. Report on a botanical survey of the Dismal Swamp region. *Contrib. U. S. Natl. Herb.* 5: 321-550. fig. 51-90, pl. 65-76, 2 maps. 1901.

Mainly ecological; includes annotated list of species; bibliography. The area covered includes Princess Anne, Norfolk, and part of Nansemond Counties, Va., and Currituck, Camden, Pasquotank, and Perquimans Counties, N. C.

Merriman, P. R. Flora of Richmond and vicinity (exclusive of grasses, sedges and trees). 353 p. (incl. 53 pl.). 19 cm. Richmond, Va., 1930.

Popular descriptive flora. (Henrico County.)

Murrill, W. A. The natural history of Staunton, Virginia. xiii, 216 p. 4 pl. 20 cm. New York, 1919.

Contains alphabetical lists of vascular plants collected (p. 110-182). (Augusta County.)

Small, J. K., and Vail, A. M. Report of the botanical exploration of southwestern Virginia during the season of 1892. Mem. Torrey Club 4: 92-201. pl. 75-82. 1893-94.

Physiography, etc.; annotated list of vascular and cellular plants collected mostly within 20 miles of Marion. (Marion is in Smyth County.)

WASHINGTON

See also British Columbia (Brown); Idaho (Spinden); Oregon (Gilkey and Powell; Hemenway).

General

Cooper, J. G. Report on the medical flora of Washington Territory. Trans. Amer. Med. Assoc. 10: 221-237. 1857.

Annotated list of wild medicinal plants.

Piper, C. V. Flora of the State of Washington. Contrib. U. S. Natl. Herb. v. 11. 637 p. 22 pl., map. 1906.

List of vascular plants, with keys and citation of specimens; physiography, plant associations, collectors, bibliography; gazetteer.

Rigg, G. B. Notes on the history of botany in the State of Washington. Washington Hist. Quart. 20: 163-173. 1929.

Botanical explorations and collectors, with especial reference to the work of institutions.

Local

Densmore, Frances. Plants used by the Makah. In her Nootka and Quileute music. Bul. Bur. Amer. Ethnol. 124: 307-321. 1939.

Tabular list of plants used by the Makah Tribe; annotated list of medicinal and other useful plants, classified by uses. (Neah Bay, Clallam County.)

Gorman, M. W. Flora of Hamilton Mountain, Washington. Mazama 6: 62-77. 1920.

Physiography, etc.; annotated list of 198 vascular plants. Hamilton Mountain is a small volcanic peak 2,432 feet high, in Skamania County.

Jones, G. N. A botanical survey of the Olympic Peninsula, Washington. Univ. Washington Pub. Biol. v. 5. 286 p. 9 pl. (incl. map). 1936.—Supplementary notes on the flora of the Olympic Peninsula. Leaflets West. Bot. 2: 105-108. 1938.

Physiography, geology, climate, plant zones, phytogeography, introduced plants, life forms, botanical explorations, bibliography; annotated list of "over 1,000 species and varieties" of vascular plants, with keys and citation of specimens. The region is bounded by the Pacific Ocean, the Strait of Juan de Fuca, the valley of the Chehalis River, and (on the east) Puget Sound, Admiralty Inlet, and Hood Canal.

— The flowering plants and ferns of Mount Rainier. Univ. Washington Pub. Biol. v. 7. 192 p. 9 pl. 1938.

Botanical explorations, plant zones, biological spectrum; annotated descriptive flora of vascular plants (729 species) of Mount Rainier National Park. (Pierce and Lewis Counties.)

Muenschner, W. L. C. Flora of Whatcom County, Washington. Muhlenbergia 9: 101-116, 117-132. 1914.

Topography, etc.; annotated list of 462 vascular plants.—See also his Some changes in the weed flora of Whatcom County, Washington. Torreyia 30: 130-135. 1930.

Piper, C. V., and Beattie, R. K. Flora of the northwest coast, including the area west of the summit of the Cascade Mountains, from the forty-ninth

parallel south to the Calapooia Mountains on the south border of Lane County, Oregon. xiii, 418 p. 23.5 cm. Lancaster, Pa., 1915.

Descriptive flora of the vascular plants (1,617 species and subspecies) with keys; glossary.—See also Nelson, J. C. Additions to the flora of western Oregon. *Torreya* 18: 21-35, 220-226. 1918; 20: 37-45. 1920; 21: 24-28. 1921; 22: 98-102. 1922; 23: 63-67. 1923; also his The introduction of foreign weeds in ballast as illustrated by ballast-plants at Linton, Oregon. *l. c.* 17: 151-160. 1917.

Reagan, A. B. Plants used by the Hoh and Quileute Indians. *Trans. Kansas Acad. Sci.* 37: 55-70. 1934.

List of Indian plant names; annotated systematic list of vascular plants, with uses. The Hoh and Quileute Indians live on the Pacific coast of the Olympic Peninsula, about due west of Seattle, Washington.

St. John, Harold. Flora of southeastern Washington and of adjacent Idaho. xxv, 531 p. 11 fig., map. 21.5 cm. Pullman, 1937.

Physiography, climate, life zones; descriptive flora of vascular plants. The region covered extends from Spokane to Walla Walla Counties, Washington, with a strip about 15 miles wide in adjacent Idaho. Replaces Piper, C. V., and Beattie, R. K. Flora of southeastern Washington and adjacent Idaho. 1914, which replaced the same authors' The flora of the Palouse region . . . 1901.—See also Daubenmire, R. F. Range extensions for southeastern Washington and adjacent Idaho. *Leaflets West. Bot.* 2: 199-200. 1939.

— and Courtney, W. D. The flora of Epsom Lake. *Amer. Jour. Bot.* 11: 100-107. 1 fig. 1924.

List of vascular plants found in the drainage basin of the lake, which is a "small lake of nearly pure magnesium sulphate," near Oroville, Okanogan County.

— and Hardin, Edith. Flora of Mt. Baker. *Mazama* 11: 52-102. illus. 1929. (Reprinted.)

Plant zones, botanical explorations; keyed flora of 333 vascular plants, with brief descriptions.—See also Muenscher, W. C. Additions to our knowledge of the flora of Mount Baker . . . *Madroño* 4: 263-270. 1938. (Adds 228 species; bibliography.) (Whatcom County.)

— and Jones, G. N. An annotated catalogue of the vascular plants of Benton County, Washington. *Northwest Science* 2: 73-93. 4 fig. (incl. map). 1928. (Contrib. Dept. Bot. State Col. Washington no. 9.)

Topography, ecology, etc.; annotated list of 403 species of vascular plants.—See also Powell, G. M. Additions to the annotated catalogue . . . *Northwest Science* 13: 72. 1939.

— and Warren, F. A. The plants of Mount Rainier National Park, Washington. *Amer. Midl. Nat.* 18: 952-985. 1937.—Additions . . . *l. c.* 20: 243-244. 1938.

Geology, life zones, botanical explorations, bibliography; annotated list of 695 spermatophytes. Replaces Piper, C. V. The flora of Mount Rainier. *Mazama* 2: 93-117. 1901; Additions and corrections. *l. c.* 2: 270-271. 1905. (Pierce and Lewis Counties.)

— and Warren, F. A. Preliminary list of the plants of the Kaniksu National Forest, Idaho and Washington. 36 p. 28 cm. [Pullman], 1925. (Contrib. Bot. Dept. State Col. Washington no. 2.)

Annotated list of 451 vascular plants, with a single key to the species. (Pend Oreille County, Washington, and Bonner County, Idaho.) (Processed publication.)

Suksdorf, W. N., and Howell, Thomas. The flora of Mount Adams. *Mazama* 1: 68-97. 1896.

Unannotated list of 480 vascular plants. Mount Adams is in the southwestern corner of Yakima County, extending into Skamania County.

Wylie, R. B. The flora of Iowa Rock, a small rocky island in Puget Sound. *Proc. Iowa Acad. Sci.* 16: 99-101. pl. 1909.

Topography, etc.; unannotated list of cellular and vascular plants. (Small island near Friday Harbor, San Juan County.)

WEST VIRGINIA

General

Brooks, A. B. West Virginia trees. Bul. West Virginia Agr. Expt. Sta. 175. 242 p. illus. 1920.

Description and full-page illustration of each species; list of shrubs and shrubby vines; glossary.

Core, E. L. The botanical exploration of West Virginia. Proc. West Virginia Acad. Sci. 10 (1936): 46-64. 1937.

Annotated chronological list of 161 collectors, with index.

Fontaine, W. M. Forest trees, shrubs, and medicinal plants. In Maury, M. F., and Fontaine, W. M. Resources of West Virginia. p. 111-141. Wheeling, 1876.

Annotated list of trees, partial list of shrubs; unannotated list of 76 medicinal plants.

Millspaugh, C. F. The living flora of West Virginia. West Virginia Geol. Survey [Rpt. 5 (A)]: 1-389, 454-487. 1913.

Topography; annotated list of collectors; annotated list of 3,411 plants, of which 1,648 are vascular. Incorporates and replaces the two following earlier floras of the State: Millspaugh, C. F. Preliminary catalogue of the flora of West Virginia. Bul. West Virginia Agr. Expt. Sta. 24. p. 311-537. 1892. Millspaugh, C. F., and Nuttall, L. W. Flora of West Virginia. Pub. Field Columbian Mus. no. 9, Bot. Ser. 1: 69-276. pl. 5-7. 1896.—For additions, see Strausbaugh, P. D., and Core, E. L. Some additions to the Millspaugh check list of West Virginia spermatophytes. Proc. West Virginia Acad. Sci. 4 (1930): 38-48. 1931. Additions . . . l. c. 9: 29-31. 1936.

West Virginia. Biological Survey. A preliminary bibliography of West Virginia biology. I. West Virginia Univ. Bul. ser. 37, no. 5-II. 20 p. 1936. (West Virginia Univ. Studies II.)

Unannotated list of botanical and zoological publications.

Local

Core, E. L. [Plant relations on Spruce Knob.] In Tilton, J. L., and others. West Virginia geological survey. Pendleton County. p. 311-313. Wheeling, 1927.

Plant associations, etc., with partial list of species. Spruce Knob is the highest mountain in the State. An additional list by A. B. Brooks is given on p. 310.

Erye, W. M. The flora of Hampshire County, West Virginia. Proc. West Virginia Acad. Sci. 8 (West Virginia Univ. Bul. ser. 35, no. 15): 59-82. 1 fig. (map). 1935.

Physiography, soil, climate, rare plants; unannotated list of about 939 vascular plants.

Hill, C. N. A botanical survey of Marion County, West Virginia. Proc. West Virginia Acad. Sci. 8 (West Virginia Univ. Bul. ser. 35, no. 15): 99-110. 1935.

Physiography, soil, general features of flora, plant societies; list of genera of vascular plants, with indication of number of species found; bibliography.

WISCONSIN

See also Illinois (Gates, The vegetation of the beach area . . .); Minnesota (Densmore).

General

Bruhin, T. A. Vergleichende flora Wisconsins. Verhandl. K. K. Zool.-Bot. Gesell. Wien 26: 229-286. 1877.—Nachträge und berichtigungen . . . l. c. 27: 859-866. 1878.—Zweiter nachtrag . . . l. c. 28: 633-644. 1879.

Collectors and collections; comparison of European and Wisconsin floras; list of 1,300 vascular plants, with localities; bibliography.

Cheney, L. S. An historical review of the work done on the flora of the territory now included within the limits of Wisconsin. Pharm. Rev. 18: 557-565. 1900; 19: 2-15. 1901.

Account of botanists and their explorations and publications, with bibliographical footnotes.

[Clobis, Matt.] Wisconsin trees. 148 p. illus. 20 cm. Milwaukee, 1927.
(Reprinted from The Milwaukee Journal.)

Annotated descriptive list, with notes on uses; popular treatment.

Denniston, R. H., and Kremers, R. E. Medicinal plants of Wisconsin. Bul. Univ. Wisconsin 738 (Gen. Ser. 542): 22-31. 1914.

Tabular list of 259 native vascular plants, with indication of part used and reference to standard dispensaries.

Fassett, N. C., and others. Preliminary reports on the flora of Wisconsin I-XXVI. Trans. Wisconsin Acad. Sci., Arts and Lett. 24: 249-268, 357-361. illus. (maps). 1929; 25: 169-214. illus. (maps). 1930; 26: 263-288. illus. (incl. maps). 1931; 27: 207-249. illus. (maps). 1932; 28: 171-196. illus. (maps). 1933; 29: 299-318. illus. (maps). 1935; 30: 17-25. illus. (maps). 1937.

List of species, with ranges, of various families and orders; not published in systematic order.

Swezey, G. D. Catalogue of the phaenogamous and vascular cryptogamous plants of Wisconsin. Geol. Survey Wisconsin, Survey of 1873-79. 1: 375-395. 1883.

Essentially unannotated list of vascular plants.

Local

Cheney, L. S. A contribution to the flora of the Lake Superior region. Trans. Wisconsin Acad. Sci., Arts and Lett. 9: 233-254. 1893.

List of 345 vascular and cellular plants (233 vascular), with localities. The region covered is in northern Wisconsin, along the north shore of Lake Superior, and the Minnesota-Ontario boundary.

— and True, R. H. On the flora of Madison and vicinity, a preliminary paper on the flora of Dane County, Wisconsin. Trans. Wisconsin Acad. Sci., Arts and Lett. 9: 45-135. pl. 2 (map). 1893.

Physiography, etc.; annotated list of 900 plants (of which 751 are vascular).

Fuller, A. M. A botanist afield on Washington Island. Year Book Pub. Mus. Milwaukee 6 (1926): 66-78. fig. 61-64. 1927.

General features of flora, etc.; annotated alphabetical list of vascular plants. (Door County.)

Lueders, H. F. The vegetation of the town Prairie du Sac. Trans. Wisconsin Acad. Sci., Arts and Lett. 10: 510-524. pl. 17 (map). 1895.

Physiography, general features of flora; unannotated list of vascular plants. (Sauk County.)

Marshall, Ruth. The vegetation of Twin Island. Trans. Wisconsin Acad. Sci., Arts and Lett. 16 (2): 773-797. pl. 62-63 (maps). 1910.

Plant formations, etc.; list of vascular plants. (In Lake Spooner, Washburn County.)

Pammel, L. H. Woody plants of western Wisconsin. Proc. Iowa Acad. Sci. 1 (2): 76-80. 1892.

Topography, geology; unannotated list of 115 trees, shrubs, and woody vines. (La Crosse County, Wis., and Houston and Fillmore Counties, Minn.)

Russel, Howland. Check list of the flora of Milwaukee County. Bul. Wisconsin Nat. Hist. Soc. n. s., 5: 167-250. 1907.

Annotated list of vascular plants.

Smith, H. H. Ethnobotany of the Forest Potawatomi Indians. Bul. Pub. Mus. Milwaukee 7: 1-230. pl. 1-38, port. 1933.

History of tribe, etc.; annotated classified lists of useful plants; bibliography; alphabetical list of Indian vernacular names. (Forest County.)

— Ethnobotany of the Menomini Indians. Bul. Pub. Mus. Milwaukee 4: 1-174. 36 pl. 1923.

General account of the Menomini tribe, who live in Shawano County; annotated lists of medicinal, edible, and other useful plants, with vernacular names.— See also Judson, J. E. Wild flowers used by the Indians for medical purposes. Proc. West Virginia Acad. Sci. 11 (1937): 165-168. 1938.

Smith, H. H. Ethnobotany of the Meskwaki Indians. Bul. Pub. Mus. Milwaukee 4: 175-326. pl. 37-45. 1928.

Annotated list of plants used by the Meskwaki or Fox Indians of Wisconsin, with native names. These Indians now live on the Meskwaki Reservation at Tama, Tama County, Iowa, where most of the data were obtained.

— Ethnobotany of the Ojibwe Indians. Bul. Pub. Mus. Milwaukee 4: 327-525. pl. 46-77. 1932.

History of tribe; annotated classified lists of useful plants; alphabetical list of Indian vernacular names. These Indians live in the forest and lake region of northern Wisconsin (in Vilas, Bayfield, Iron, and Clark Counties, etc.), also on Bear Island, Leech Lake, Cass County, Minnesota.

Tracy, C. T. Catalogue of plants growing without cultivation in Ripon and the near vicinity. 26 p. 17 cm. Ripon, Wis., [1889].

Unannotated list of vascular plants. (Fond du Lac County.)

Wadmond, S. C. Flora of Racine and Kenosha Counties, Wisconsin: a list of the fern and seed plants growing without cultivation. Trans. Wisconsin Acad. Sci., Arts and Lett. 16: 793-883. 1910.

Physiography, etc.; annotated list of 901 vascular plants.

Wheeler, W. M. The flora of Milwaukee County. Proc. Nat. Hist. Soc. Wisconsin 1888: 154-190. [1888?]-1st supplement. l. c. 1889: 229-230. [1889?]

Geology, soils, climate, bibliography; annotated list of 691 vascular plants, raised in the supplements to 921. First supplement not seen (cf. Bul. Torrey Club 17: 78-79. 1890).—For 2d and 3d supplements see Bennetts, W. J. Additions . . . Bul. Wisconsin Nat. Hist. Soc. 1: 161-166. 1900; 2: 39-44. 1902.

WYOMING

See also Montana (Rydberg).

General

Nelson, Aven. First report on the flora of Wyoming. Bul. Wyoming Agr. Expt. Sta. 28. p. 45-218. 2 fig., map. 1896.

Annotated list of vascular (and a few cellular) plants, chiefly collected by the author in 1894-95; lists of species reported by other botanists; total (phanerogams) 1,295 species and varieties.

— The trees of Wyoming and how to know them. Bul. Wyoming Agr. Expt. Sta. 40. p. 57-110. illus. 1899.

Annotated list of native trees, with brief descriptions.—See also Cary, Merritt. Notes on the distribution of conspicuous trees and shrubs in Wyoming. In his Life zone investigations in Wyoming. North Amer. Fauna 42: 55-81. fig. 3-17. 1917.

Nelson, E. E. The shrubs of Wyoming. Bul. Wyoming Agr. Expt. Sta. 54. 47 p. illus., 5 pl. 1902.

Annotated list of native shrubs.

Local

McDougall, W. B., and Baggeley, H. A. Plants of Yellowstone National Park. iv, 160 p. illus., col. pl. 23.5 cm. Washington, D. C., 1936.

A popular treatment, with keys and without authorities for botanical names, apparently intended to list all vascular plants known from the region. Issued by National Park Service. The park is in the northwestern corner of Wyoming, slightly overlapping the Montana and Idaho lines.

Russell, C. P. A concise history of scientists and scientific investigations in Yellowstone National Park. With a bibliography of the results of research and travel in the park area. 144 p. 26.5 cm. [Washington, D. C., 1934.]

Botanical bibliography, p. 37-39. Published by National Park Service. (Processed.)

WEST INDIES

For Bermuda Islands, see *Insular Floras*; Trinidad and Tobago, see *Venezuela*.

Descourtilz, M. E. *Flore pittoresque et médicale des Antilles, ou histoire naturelle des plantes usuelles des colonies françaises, anglaises, espagnoles et portugaises* . . . 2. éd. 8 v. 600 col. pl. 21 cm. Paris, 1833. (1st ed., 1821-29.)

Descriptive account, the plants classified by uses, with vernacular names, description, chemical and medicinal properties, method of use. The second edition is not essentially different from the first.

Grisebach, A. H. B. *Flora of the British West Indian islands*. xvi, 789 p. 23 cm. London, 1864 [1859-64].

Still the only general flora of the West Indies, from the Bahamas to Trinidad (not including Cuba, Hispaniola, and Puerto Rico). Descriptive flora with synonymy, local and extralimital range (the latter notations now often untrustworthy); separate index of vernacular names. Dates of publication (see Urban, *Symb. Antill.* 1: 56): p. 1-192. 1859; 193-315. 1860; 315-506. 1861; 507-789, preface. 1864. Grisebach's paper "Die geographische verbreitung der pflanzen Westindiens," *Abhandl. K. Gesell. Wiss. Göttingen* 12: 3-80. 1865 (separate, 80 p.) gives an account of the plant geography based on his *Flora*; 4,401 species, of which 2,155 are endemic. For statistics of the number of species recorded from different islands, see Urban, *Symb. Antill.* 1: 57. 1898.

Grosourdy, René de. *El médico botánico criollo*. 4 v. in 2. 24 cm. Paris, 1864.

Includes annotated lists of timbers, medicinal plants, poisonous plants, etc. Covers the West Indies and adjacent America.

Urban, Ignatz. *Bibliographia Indiae occidentalis botanica*. In his *Symbolae antillanae* . . . 1: 3-195. 1898.—*Continuatio I-III*. l. c. 2: 1-7. 1900; 3: 1-13. 1902; 5: 1-16. 1904.

Critically annotated list, arranged by authors, with notes referring to their travels in the West Indies. The titles in the first paper are classified in a conspectus.

— *Notae biographicae peregrinatorum Indiae occidentalis botanicorum*. In his *Symbolae antillanae* . . . 3: 14-158. 1902.

Bibliography; alphabetical list of collectors, with brief biography and itinerary, statement of location of collections, reference to biographies; geographical conspectus, listing collectors and their dates.

BAHAMA ISLANDS

General

Britton, N. L., and Millspaugh, C. F. *The Bahama flora*. viii, 695 p. 23.5 cm. New York, 1920.

Complete flora, with keys, descriptions, extralimital range and pertinent synonymy of the native and naturalized plants; brief description of region: list of collectors and collections; annotated bibliography. Musci by E. G. Britton, Hepaticae by A. W. Evans, Lichenes by L. W. Riddle, Algae by M. A. Howe, Myxophyceae by F. S. Collins, Diatomeae by C. S. Boyer, Fungi by F. J. Seaver. Lists 1,982 species (of which 1,028 are vascular plants) of which 185 (133 vascular) are endemic.

Local

Northrop, A. R. *Flora of New Providence and Andros (Bahama Islands)*. With an enumeration of the plants collected by John I. Northrup and Alice R. Northrup, in 1890. *Mem. Torrey Club* 12: 1-98. 19 pl., map. 1902. (Reprinted in Osborn, H. F. *A naturalist in the Bahamas*; John I. Northrop. 1910.)

Physiography, botanical regions, botanical explorations; list of 542 species (461 spermatophytes), with localities and collector's numbers; relationship of flora; table of local and extralimital distribution.

CUBA

General

Fors, A. J. Las maderas cubanas . . . [2. ed.?] 106 p. 22.5 cm. Habana, 1937. (1st ed., 1929.)

Annotated list of trees, alphabetically arranged by vernacular names; list of vernacular names arranged by families. Publication of the Dirección de montes y minas. Secretaría de agricultura, comercio y trabajo, Cuba.

Gómez de la Maza, Manuel. Ensayo de farmacofitología cubana. Resumen de las propiedades medicinales, con especialidad las recientemente estudiadas, de muchas plantas indígenas ó de cultivo . . . 112 p. 19.5 cm. Habana, 1889.

Briefly annotated list of 179 cellular and vascular plants, with vernacular names and uses.

— and Roig y Mesa, J. T. Flora de Cuba. Bol. Estac. Expt. Agron. Santiago de las Vegas 22. 178 p. 33 pl., 4 port., map. 1914.

Of value chiefly for its vernacular names (separately indexed) and notes on economic plants, these classed according to uses. Contains also botanical statistics, list of fossil plants, and short notes on Cuban herbaria, collectors, and botanical works. Not a flora.

Grisebach, A. H. R. Catalogus plantarum cubensium exhibens collectionem Wrightianam aliasque minores ex insula Cuba missas. iv, 301 (i. e. 303) p. 22 cm. Lipsiae, 1866.

The fundamental list of Cuban vascular plants. Includes citation of exsiccatae, but not specific localities; separate index of vernacular names. Contains 3,263 species (2,984 phanerogams), of which 939 (929) are endemic.

Léon, J. S. S., hermano. Las exploraciones botánicas de Cuba. Mem. Soc. Cubana Hist. Nat. "Felipe Poey" 3: 178-224. port., map. 1918. (Reprinted.)

General review of botanical explorations in Cuba from earliest times to 1917; bibliographies. The map shows the principal localities at which collections have been made.

Montagne, Camille, and Richard, Achille. Flora cubana, ó descripción botánica usos y aplicaciones de las plantas reunidas en la isla de Cuba por D. Ramon de la Sagra. 3 v. and atlas of 122 pl. (20 col.). 40 cm. Paris, 1845-55 (56). (Historia física, política y natural de la isla de Cuba, por D. Ramon de la Sagra. Segunda parte, Historia natural, tomo IX-XII, Botánica.)

Vol. I: Climate, calendar of flowering, etc.; systematic list of vascular and cellular plants, etc. (the cryptogams by Montagne). Vol. 2-3: Descriptive flora of 1,248 phanerogams, with vernacular names, by Richard. There is also an incomplete French edition (see Urban, Symb. Antill. 1: 146. 1898).

Roig y Mesa, J. T. Diccionario botánico de nombres vulgares cubanos. Bol. Estac. Expt. Agron. Santiago de las Vegas 54. viii, 897 p. 48 pl. 1928.

Bibliography; annotated list of vernacular names of wild and cultivated plants with botanical equivalents; brief descriptions, local occurrence, uses.

Sauvalle, F. A. Flora cubana. Enumeratio nova plantarum cubensium vel revisio catalogi Grisebachiani, exhibens descriptiones generum specierumque novarum Caroli Wright, (Cantabrigiae) et Francisci Sauvalle, synonymis nominibusque vulgaribus cubensis (sic) adjectis. 324 p. 25.5 cm. Havanae, 1873.

Systematic list of 3,350 vascular plants mostly collected by Charles Wright, with vernacular names and some synonyms; Wright's collecting numbers cited only from p. 49 on. Vernacular names separately indexed. Originally appeared in Anales R. Acad. Cien. Habana v. 5-9. 1868-1873. For information about Wright's work in Cuba, see Underwood, L. M. A summary of Charles Wright's explorations in Cuba. Bul. Torrey Club 32: 291-300. map. 1905. (Reprinted as Contrib. Dept. Bot. Columbia Univ. no. 217.)

Seguí, D. H. Ojeada sobre la flora médica y tóxica de Cuba. 93 p. Habana, 1900.

Annotated list of medicinal plants, with vernacular names; bibliography. Not seen; data taken from Urban, Symb. Antill. 3: 11. 1902.

Local

Combs, Robert. Plants collected in the district of Cienfuegos, province of Santa Clara, Cuba, in 1895-1896. *Trans. Acad. Sci. St. Louis* 7: 393-491. pl. 30-39, map. 1897. (Reprinted as *Contrib. Bot. Dept. Iowa State Coll.* no. 7.)

Phytogeography, plant habitats; annotated list of vascular plants, with vernacular names, based on the author's collections.

— Some Cuban medical plants. *Pharm. Rev.* 15: 87-91, 109-112, 136. 1897.

Annotated systematic list of plants used as domestic remedies, with vernacular names and uses.

Fernow, B. E. List of trees on the Sierra Maestra. In his *The high Sierra Maestra*. *Forestry Quart.* 4: 259-269. 1906.

Annotated list, alphabetically arranged by vernacular names, with brief description of wood and uses.

Gómez de la Maza, Manuel. *Flora habanera*. *Fanerógamas*. 597 p. 19 cm. Habana, 1897.

Keys to and descriptions of the phanerogams of Havana, with keys to all the Cuban genera of each family. Contains many new names omitted from *Index Kewensis*.

Jennings, O. E. A contribution to the botany of the Isle of Pines, Cuba, based upon the specimens of plants from that island contained in the herbarium of the Carnegie Museum under date of October, 1916. *Annals Carnegie Mus.* (Pittsburgh) 11: 19-290. pl. 5-28. 1917.

Botanical collections (1831-1916), bibliography, physiography, plant associations; annotated list of 757 species and varieties (731 vascular plants) with synonymy, general range, exsiccatae; keys to species under each family (in *Spermatophyta*). Includes all recorded species as well as those collected by the author.—See also Roig, J. T. *Reseña sobre una excursión botánica a Isla de Pinos*. *Mem. Soc. Cubana Hist. Nat. "Felipe Poey"* 5: 72-76. 1923.

HISPANIOLA

General

Urban, Ignatz. *Flora domingensis*. In his *Symbolae antillanae*, v. 8. 860 p. 1920-21.

Systematic list of *Spermatophyta* of Santo Domingo and Haiti, with synonymy, citation of exsiccatae, and statement of extralimital range; vernacular names (separately indexed). Lists 3,000 species (p. 702), of which 983 are endemic. The *Pteridophyta* are treated in his *Symbolae antillanae* 9: 273-397. 1925; the collectors, plant formations, and plant geography in 9: 1-54. 1923. In the latter contribution the total number of phanerogams is raised to 3,088, of which 1,048 are endemic.—See also his *Plantae haitienses novae vel rariores a cl. Er. L. Ekman* 1917-[26] lectae I-IV. *Arkiv Bot.* v. 17, no. 7. 72 p. 1 fig. 1921; v. 20A, no. 5. 65 p. 2 fig. (maps), 3 pl., no. 15. 94 p. 2 fig., pl. 1926; v. 21A, no. 5. 97 p. 1927. *Plantae haitienses et domingenses . . . V-[X]* a cl. E. L. Ekman 1924-[30] lectae. *l.c.* v. 22A, no. 8. 98 p. 4 pl., no. 10. 108 p. pl., no. 17. 115 p. 1 fig. 1929; v. 23A, no. 5. 107 p. 5 pl. 1930; v. 23A, no. 11. 103 p. 1 fig., 5 pl. 1931; v. 24A, no. 4. 54 p. 3 pl. 1932.

Local

Barker, H. D., and others. Identification des plantes d'Haiti par leurs noms créoles. *Bul. Serv. Tech. Dept. Agr. Haiti* 18. 23 p. 1930.

Alphabetical lists of Creole vernacular names, with botanical equivalents.

— and Dardeau, W. S. *Flore d'Haiti*. Clé et description des ordres, familles et genres des spermatophytes d'Haiti avec la liste de la plupart des espèces. viii, 456 p. 24 cm. Port-au-Prince, 1930.

Keys to families and genera of *Spermatophyta* with brief descriptions; enumeration of species under each genus, with vernacular names; glossary.

Ekman, E. L. A list of plants from the island of Gonave, Haiti. Arkiv Bot. v. 23A, no. 6. 73 p. 1930.

General features of flora, botanical explorations, etc.; annotated list of vascular plants collected by the author, with vernacular names; distribution in Haiti given.

— Plants observed on Tortue Island, Haiti. Arkiv Bot. v. 22A, no. 9. 61 p. 1929.

Physiography, geology, climate; annotated list of 889 vascular plants, with Haitian range; phytogeography.

— Plants of Navassa Island, West Indies. Arkiv Bot. v. 22A, no. 16. 12 p. 2 pl. 1929.

Physiography, geology, climate, general features of flora; list of 102 vascular plants, with data.

Häussler, F. Haitianische pflanzen, die von den bewohnern der insel als heilpflanzen geschätzt und verwendet werden. Schweiz. Apoth. Zeit. 52: 261-264, 275-278. 1914.

Annotated compiled list, with vernacular names and uses; bibliography.

Ostenfeld, C. H., and others. Plants from Beata Island, St. Domingo collected by C. H. Ostenfeld. (Botanical results of the Dana-expedition 1921-22, no. 1) . . . Dansk Bot. Arkiv v. 4, no. 7. 36 p. 17 fig., 3 pl. 1924.

General features of flora; list of vascular plants (by I. Urban), lists of cellular plants by other authors.

Schiffino, José. Riqueza forestal dominicana. 125 p. plates. 23 cm. Santo Domingo, 1927.

Annotated list of trees of Dominican Republic, alphabetically arranged by vernacular names, with names in other countries of tropical America. Work of same title, 1939, 105 p., cited in Taxon. Index v. 2, entry 634. 1939.

Urban, Ignatz. Zur hochgebirgsflora von Sto. Domingo. In his Symbolae antillanae . . . 6: 280-292. 1909.

Running account of vegetation; list of spermatophytes occurring at 2,000 meters elevation or more, divided according to geographical affinities, with general range indicated.

JAMAICA

General

Beckwith, M. W. Notes on Jamaican ethnobotany. 47 p. 2 pl. 23 cm. Poughkeepsie, 1927.

Bibliography; alphabetical list of 134 medicinal plants, with uses, and general account of native plant medicines; general account of food plants.

Fawcett, William. Economic plants. An index to economic products of the vegetable kingdom in Jamaica. 78 p. 21.5 cm. Kingston, 1891.

Annotated alphabetical list of native and introduced plants of economic importance.

— A provisional list of the indigenous and naturalized flowering plants of Jamaica. 57 p. 21.5 cm. Kingston, 1893.

Unannotated systematic list of 2,412 species.

— and Rendle, A. B. Flora of Jamaica, containing descriptions of the flowering plants known from the island. v. 1, 3-5, 7. illus., plates. 22 cm. London, 1910-36.

Descriptive flora of vascular plants, with keys, synonymy, exsiccatae, vernacular names, uses, extralimital range; bibliographies; lists of collectors, with dates (in prefaces of several volumes). Not yet completed. Vol. 7 is by S. LeM. Moore and A. B. Rendle.

Local

Hitchcock, A. S. List of plants collected in the Bahamas, Jamaica and Grand Cayman. Ann. Rpt. Missouri Bot. Gard. 4: 47-179. pl. 11-14. 1893.

Systematic list of vascular plants based mainly on the writer's collections, with localities; relationships of Bahama flora; tables and statistics of distribution. Superseded by other floras except as to records of plants of Grand Cayman.—See also Fawcett, William. Plants collected in the Cayman Islands. Bul. Bot. Dept. Jamaica 11: 6-7. 1889.

LESSER ANTILLES

See also French Guiana (Lanessan, *Les plantes utiles* . . . for account of useful plants of Guadeloupe (p. 172-187, 490-527) and Martinique (p. 153-171, 421-489)); Puerto Rico (Britton and Wilson, *Botany of Porto Rico and the Virgin Islands*).

General

Grisebach, A. H. R. Systematische untersuchungen über die vegetation der Karaiben, insbesondere der insel Guadeloupe nach der sammlungen Duchassaing's. Abhandl. K. Gesell. Wiss. Göttingen 7: 151-286. 1857. (Reprinted, 133 p.)

Systematic list of vascular plants of the Lesser Antilles, with citation of islands on which they are found and of the collectors or authors reporting them; 1,486 species, of which 1,325 are Spermatophyta.

Local

Anonymous. Flora of St. Vincent and adjacent islets. Bul. Misc. Inform. Kew 1893: 231-296. 1893.

Systematic list of the vascular plants of St. Vincent and the Grenadines (Bequia, Cannouan, Mustique, Union) prepared by the botanists at Kew, with citation of exsiccatae and statement of extralimital range; brief account of physical geography; statistical plant geography. Enumerates about 1,313 species including cultivated plants.

Anonymous. Timbers of Dominica. West Indian Bul. 9: 329-345. 1909.

Annotated list of 176 timber trees, alphabetically arranged by vernacular names, with botanical names where known; list classified by uses. Revision of Imray, John. The useful woods of the island of Dominica. Technologist 2: 382-391. 1862.

Alexander, W. H. The flora of St. Christopher. Bul. Amer. Geog. Soc. 33: 207-219. 1901.

Tabular list of principal economic plants, native and introduced, with vernacular names and uses.

Ballet, Jules. Description des plantes. In his La Guadeloupe. Renseignements sur l'histoire, la flore, la faune, la géologie, la minéralogie, l'agriculture . . . v. 1, [pt. 1,] p. 176-527. Basse-Terre, 1890 (1894).

Running account with descriptions, uses, vernacular names, the plants grouped principally by habit, the botanical names not given; tabular systematic list (p. 363-521), based on Grisebach, of vascular plants (Filices by Mazé) and bryophytes, with vernacular names that serve to identify the species described in the first section; systematic list of cultivated plants.

Boldingh, Isaac. A contribution to the knowledge of the flora of Anguilla (B. W. I.). Recueil Trav. Bot. Néerland. 6: 1-36. 1909.

List of 150 vascular plants; general range given.

— The flora of the Dutch West Indian islands. 2 v. 9 pl., 4 maps. 25.5 cm. Leyden, 1909-14.

Vol. 1, The flora of St. Eustatius, Saba, and St. Martin; vol. 2, The flora of Curaçao, Aruba, and Bonaire. Systematic lists of vascular plants with citation of exsiccatae and statement of extralimital range; historical account of collectors, with detailed notes on some of the larger collections; phytogeographical data; bibliographies; separate indices to vernacular names. Vol. 1 contains 806 species, of which 674 are wild; vol. 2 contains 394 wild species.

— Flora voor de Nederlandsch West-Indische eilanden. xx, 450 p. 23.5 cm. Amsterdam, 1913.

Keys to and descriptions of the plants listed in his English flora of the same islands, with vernacular names (separately indexed) and mention of the islands on which the plants occur.

— Lijst van planten die door de bewoners van de drie Nederlandsche Antillen, St. Eustatius, Saba en St. Martin als geneeskrachtig worden beschouwd tevens een vergelijkend overzicht van het medicinaal gebruik dat bij verschillende schrijvers over die planten wordt gevonden. Bull. Kolon. Mus. Haarlem 38: 93-112. 1907.

Annotated systematic list of medicinal plants, with vernacular names, uses and references.

Box, H. E. A note on the vegetation of Redonda, B. W. I. Jour. Bot. 77: 311-313. 1939.

Geology, etc.; list of plants collected or observed by author on July 18, 1938. (About 15 miles northwest of Montserrat, 16°55' N. Lat., 62°16' W. Long.)

Britton, N. L. The flora of the American Virgin Islands. Mem. Brooklyn Bot. Gard. 1: 19-118. 1918.

Annotated systematic list of the plants (including principal cultivated species) of St. Thomas, St. Jan, and St. Croix, formerly the Danish West Indies; physical geography; annotated bibliography; list of collectors. Musci by E. G. Britton, Hepaticae by A. W. Evans, Lichenes by L. W. Riddle; references to literature on Fungi and Algae. Enumerates 1,052 native species (excluding fungi and algae), of which 27 are endemic.

—— The vegetation of Anegada. Mem. N. Y. Bot. Gard. 6: 565-580. 1916.

Physiography, etc.; annotated list of 123 vascular and cellular plants, with general range given; the lichens determined by L. W. Riddle.

Duss, Antoine, père. Flore phanérogamique des Antilles françaises (Guadeloupe et Martinique) . . . avec annotations du Professeur Dr. Édouard Heckel sur l'emploi de ces plantes. Annales Mus. Colon. Marseille v. 3. xxvii, 656 p. 1897.

Systematic list, including cultivated species, of the phanerogams of Guadeloupe, Martinique, and neighboring small islands; brief descriptions, uses, local occurrence, vernacular names; sketch of physical geography, climate, and plant associations.—For additions see Privault, Daniel. Contribution à l'étude de la flore de la Martinique. Bul. Soc. Bot. France 84: 289-294. 1937.

Grébert, René. Les forêts de la Guadeloupe. Bul. Agence Écon. Colon. Auton. et Terr. Afr. (France) 27: 639-702, 765-875, 941-1015. 1934.

Geography, climate, soil, destruction of forests, phytogeography, zones of vegetation, composition of principal forests; systematic list of timbers, with vernacular name, habitat, brief description, character of wood, use.

Kervégant, D. Les plantes utiles et ornementales de la Martinique. Bul. Agr. Martinique 5: 1-94. 1936; 6: 1-142. 1937.

Annotated classified lists of wild and cultivated useful plants, arranged alphabetically by vernacular names. Unfinished; pt. 1, pot-herbs and vegetables; pt. 2, fruits. List consists mostly of cultivated plants.

Maycock, J. D. Flora barbadensis: a catalogue of plants indigenous, naturalized, and cultivated, in Barbados . . . xx, 446 p. 2 maps. London, 1830

Arranged according to Linnaean system, with Latin descriptions and synonymy; separate index of vernacular names.

Mazé, Hippolyte. Contribution à la flore de la Guadeloupe. 190 p. 25 cm. Basse-Terre, 1892.

Unannotated list of wild and cultivated spermatophytes, with vernacular names.

Millspaugh, C. F. Flora of the island of St. Croix. Pub. Field Columbian Mus. 68, Bot. Ser. 1: 441-546. map. 1902.

The species listed (1,029) are incorporated in Britton's Flora of the American Virgin Islands. Biographical sketches of collectors, with bibliographical references; account of cultivated plants.

Schomburgk, R. H. The history of Barbados; comprising a geographical and statistical description of the island; a sketch of the historical events since the settlement; and an account of its geology and natural productions. xx, 722 p. illus., plates, map, table. 25.5 cm. London, 1848.

Contains (p. 582-633) a list of wild and cultivated vascular plants (896 phanerogams), with indices of vernacular names.

Stehlé, Henri, Stehlé, M., and Quentin, L. Flore de la Guadeloupe et dépendances. v. 1-2, pt. 1. illus., plates, port., 4 maps, table. 23 cm. Basse-Terre, 1935-37.

Vol. 1, Essai d'écologie et de géographie botanique, by H. Stehlé. Vol. 2, pt. 1, Catalogue des phanérogames et fougères avec contribution à la flore de la Martinique, by H. and M. Stehlé and Quentin: general features of flora, list of endemic phanerogams of Guadeloupe and dependencies, statistics, bibliography; annotated list of vascular plants, with references, synonymy, vernacular names, local and extralimital range; briefly annotated alphabetical list of collectors, Vol. 2, pt. 1 covers part of the Polypetalae and Apetalae.

Wheeler, L. R. The botany of Antigua. *Jour. Bot.* 54: 41-52. 1916.
Account of physical geography and climate; general features of flora; plant associations. No systematic list of species.

Wikström, J. E. Öfversigt af ön Sanct Barthelemi's flora. K. [Svenska] Vetensk.-Akad. Handl. 1825: 411-433. 1826.

Bibliography (in footnotes), botanical explorations; list of 301 vascular plants, with occasional critical annotations.

PUERTO RICO

General

Asenjo, C. F. Apuntes acerca de las plantas medicinales de Puerto Rico. *Revista Agr. Puerto Rico* 28: 460-469, 741-748. 1937; 29: 136-141. 1938.

Extensively annotated systematic list of the principal medicinal plants, with popular and official uses and chemical composition. The parts listed include Typhaceae-Orchidaceae.

Barrett, O. W. The food plants of Porto Rico. *Jour. Dept. Agr. Porto Rico* 9: 61-208. 1925.

Annotated alphabetical list of vernacular names of wild and cultivated food plants and corresponding index of scientific names.

Britton, N. L., and Wilson, Percy. Botany of Porto Rico and the Virgin Islands. *In* New York Academy of Sciences. Scientific survey of Porto Rico . . . v. 5-6. 626, 663 p. 1923-30.

Full descriptive flora of vascular plants, with keys and synonymy; extra-limital range given; vernacular names, annotated bibliography. The treatment of the Pteridophyta is by W. R. Maxon. Covers area from Mona Island to Anegada and St. Croix.

Brush, W. D., Murphy, L. S., and Mell, C. D. Trees of Porto Rico. *In* Murphy, L. S. Forests of Porto Rico . . . *Bul. U. S. Dept. Agr.* 354: 56-97. 1916.

Systematic list of 172 species, with size, vernacular names, uses, and brief description of wood.

Cook, O. F., and Collins, G. N. Economic plants of Porto Rico. *Contrib. U. S. Natl. Herb.* 8: 57-269. fig. 12-13, pl. 13-60. 1903.

Alphabetical catalog of vernacular and scientific names, with brief descriptive notes and account of uses.

Otero, J. I., and Toro, R. A. Catálogo de los nombres vulgares y científicos de algunas plantas puertorriqueñas. *Bol. Estac. Expt. Insul. Río Piedras, P. R.* no. 37. 248 p. 1931.

Botanical explorations; systematic list of 2,063 vernacular names, with equivalent botanical names; indices, including references to Britton and Wilson's Botany of Porto Rico and the Virgin Islands; alphabetical list of English vernacular names, with Spanish and botanical equivalents; bibliography.

Urban, Ignatz. Flora portoricensis. *In* his *Symbolae antillanae*, v. 4. 771 p. port. 1903-11.

Systematic list with synonymy, citation of specimens, and statement of extra-limital range; history of botanical exploration, plant geography; separate index of vernacular names. Enumerates 2,056 species, of which 271 are endemic.

Local

Britton, N. L. La vegetación de Cayo Icacos. *Revista Agr. Puerto Rico* 12: 91-96. 1924.

Unannotated list of spermatophytes collected by the author and others on 30 January 1923. (East of Cape San Juan.)

—— The vegetation of Mona Island. *Annals Missouri Bot. Gard.* 2: 33-58. pl. 1-2. 1915.

Physiography, soil, general features of flora; annotated list of about 292 vascular and cellular plants, with general range indicated.

Gifford, J. C., and Barrett, O. W. Trees of the Luquillo region. *In* Gifford, J. C. The Luquillo Forest Reserve, Porto Rico. *Bul. Bur. Forestry U. S. Dept. Agr.* 54: 35-46. 1905.

Systematic list, with vernacular names and notes on height, wood, and uses.

Wilson, Percy. The vegetation of Vieques Island. *Bul. N. Y. Bot. Gard.* 8: 379-410. 1917.

Physiography, botanical explorations; annotated list of 579 plants (555 vascular), with range in adjacent islands.

SOUTH AMERICA

ARGENTINA

See also Chile (Neger, *Pflanzengeographisches aus den südlichen Anden*; Philippi, *Sertum mendocinum*); Paraguay (Morong and Britton; Parodi); Patagonia; Uruguay (Paccard).

The following publications have not been available:

Roibon, Federico. Plantas indígenas medicinales de la Provincia de Corrientes para la Exposición de Filadelfia. 2. ed. Corrientes, 1903. (Cited from Kurtz, F. *Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina)* 19: 339. 1913.)

Rojas Acosta, Nicolás. Catálogo de las plantas medicinales del Chaco austral. *Revista Farm. (Buenos Aires)* 47: 214-225, 247-258, 284-298, 315-327. 1907; 52(?): 73-95, 120-143, 151-163, 1912. (Cited from Hicken, C. M. *Darwiniana* 1: 408, 1929.)

Plantas medicinales de Corrientes. *Revista Farm. (Buenos Aires)* 45: 115-145. 1905. (Cited from Kurtz, F. *Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina)* 19: 226. 1913.)

Sparr, Enrique. Bibliografía de la flora fanerogámica de la Provincia de Córdoba (Argentina). *Revista Mus. Prov. Cien. Nat. Córdoba* 1938, no. 3, 108 p. (Cited from *Bot. Zentrabl. n. f.*, 32 (v. 174, Lit.): 60. 1939.)

General

Blondel, Raoul. Las plantas medicinales en la pabellón de la República Argentina. In *La República Argentina en la Exposición universal de Paris de 1889*. 2: 103-126. Paris, 1890.

Running account of medicinal plants, grouped by uses, with vernacular names.

Castro, E. B. Las maderas argentinas. Su importancia industrial. 344 p. table. 25 cm. Rosario, 1918.

Vernacular names, brief description of tree and wood, uses; no index, no obvious order of arrangement of species.

Domínguez, J. A. Contribuciones a la materia médica argentina. (Primera contribución.) *Trab. Inst. Bot. y Farm. Fac. Cien. Méd. Buenos Aires* [no. 44]. xxiii, 433 p. 1925.

Biographical accounts of workers on medicinal plants of South America, from Cristóbal Colón to Glaziou, with list of publications; early American medicine; annotated systematic list of medicinal plants of Argentina, with vernacular names; tabular alphabetical list of 524+111 plants, showing results of phytochemical investigations; annotated systematic list (Piperaceae-Lauraceae) of materia médica argentina, with descriptions, pharmacological information, and vernacular names (indexed).

Datos para la materia médica argentina. *Trab. Mus. Farm. Fac. Cien. Méd. Buenos Aires* no. 1. xxix, 278 p. 1903; no. 25. x, 141 p. 1910.

Systematic list, with descriptions, vernacular names, chemical composition, and medicinal uses.

Synopsis de la matière médicale argentine. *Trab. Mus. Farm. Fac. Cien. Méd. Buenos Aires* no. 7. 24 p. 1905.

Botanical explorations, work on medicinal plants; annotated list of native medicinal plants, with vernacular names and localities.

Hauman, Lucien. Les modifications de la flore argentine sous l'action de la civilisation. (Essai de géobotanique humaine.) *Mém. Acad. Roy. Belg. Cl. Sci. Collect. in-4°*. II, v. 9, fasc. 3. 99 p. 1928.

Includes (p. 79-94) list of adventive phanerogams annotated by means of symbols.

Les phanérogames adventices de la flore argentine. *Anales Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires* 33: 319-345. 1925.

Annotated list of 376 species; supplementary list of cosmopolitan species.—For supplementary lists see Parodi, L. R., and Molino, J. F. Nuevas adiciones a la flora fanerogámica adventicia . . . *Revista Fac. Agron. Univ. La Plata* 18: 139-156. 4 fig. 1928.—Also Molino, J. F. Adiciones . . . *Anales Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires* 34: 89-119. 10 pl. 1928.

Vanderveken, G., and Irigoyen, L. H. Catalogue des phanérogames de l'Argentine. *Anales Mus. Nac. Hist. Nat. Buenos Aires* 29: 1-351. 1917; 32: 1-314. 1923.

Incomplete; list of 2,392 phanerogams (Gymnosperms, Monocotyledons, Dicotyledons through Droseraceae) with references pertaining to local distribution; bibliography. Pt. 1 by Hauman and Vanderveken, pt. 2 by Hauman and Irigoyen.

Hieronymus, Georg. *Plantae diaphoricae florum argentinæ* ó revista sistemática de las plantas medicinales, alimenticias ó de alguna otra utilidad y de las venenosas, que son indígenas de la República Argentina ó que, originarias de otros países se cultivan ó se crían espontáneamente en ella. Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina) 4: 199-598. 1882. (Reprinted.)

Annotated systematic list of useful plants, with vernacular names and local range. Said to have been reprinted in 1930. 421 p. (cf. Millán, R. Bibliografía, p. 268. 1935.)

Holmberg, E. L. La flora de la República Argentina. In Segundo censo de la República Argentina Mayo 10 de 1895 . . . v. 1, p. 383-474. 38 fig., 13 pl., map. Buenos Aires, 1898.

Botanical explorations, local herbaria, plant formations, statistics of flora.—See also Stuckert, Teodoro. Observaciones al capítulo La flora argentina por el Doctor E. L. Holmberg . . . Anales Soc. Cien. Argentina 48: 67-105. 1899. (Reprinted, 41 p.)

Kurtz, Fritz. Essai d'une bibliographie botanique de l'Argentine. 2. ed. (1912). Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina) 19: 221-376. 1913; 20: 369-467. 1915.

List of works relating to the flora of Argentina (principally) and other South American countries (Colombia, Ecuador, Venezuela, Peru, Bolivia, southern Brazil, Paraguay, Uruguay, Chile), arranged alphabetically by authors, followed by classified lists of the publications. Continued by L. Hauman and A. Castellanos in Physis 5: 263-291. 1922 (for the years 1914-21) and 8: 436-467. 1927 (for 1922-26).—See also Hicken, C. M. Contribución al conocimiento de la bibliografía botánica argentina. Darwiniana 1: 191-318. 1927. Segunda contribución . . . l. c. 319-430. 1929. Tercera contribución . . . l. c. 431-539. 1930. (Intended to complement Kurtz's "Essai" (1912); includes brief list of herbaria and exsiccatae.)

Latzina, Eduardo. Index de la flora dendrológica argentina. Lilloa 1: 95-211. 14 pl. 1937.

Index of vernacular names; briefly annotated systematic list of 839 species, with data on physical properties of the woods; bibliography. Replaces his paper of same title published in Publ. Com. Honor. Reducc. Indios 3: 3-117. 1935. (Also issued as Trab. Inst. Bot. y Farm. Cien. Méd. Buenos Aires no. 54.)

Millán, Roberto. Bibliografía agrícola argentina hasta 1930. Bol. Min. Agr. Rep. Argentina v. 36, suppl. 302 p. 1935.

List of periodicals cited; alphabetical list of vernacular names with cross references to botanical names and citation of publications upon them (almost entirely restricted to useful or injurious plants, including cultivated species); bibliography of papers on various agricultural subjects, including medicinal and other useful plants, also of papers arranged by Provinces. The papers cited are practically all in Argentine periodicals and include few that are strictly botanical.

Molfino, J. F. Plantas usuales de la flora argentina. Almanaque Min. Agr. Rep. Argentina 9: 457-466. 1934.

Systematic list of medicinal plants for which authentic chemical and physiological data exist, with vernacular names and note on properties.

Niederlein, Gustav. Produits des exploitations et des industries forestières. In Exposition universelle internationale de 1889 à Paris. Catalogue spécial officiel . . . de la République Argentine. p. 203-264. Paris, 1889.

List of 1,638 specimens of woods, medicinal and other useful plants, classified by uses and then arranged under geographical divisions, with vernacular names and brief annotations.

— La riqueza florestal de la República Argentina . . . In La República Argentina en la Exposición universel de Paris de 1889. 2: 1-101. Paris, 1890.

Annotated tabular list of trees (502 numbers), alphabetically arranged by vernacular names, with botanical names, locality, dimensions, characters of wood, uses; alphabetical annotated lists of woods used for tanning and dyeing, textiles, medicinal plants.

Parodi, L. R. Las plantas indígenas no alimenticias cultivadas en la Argentina. *Revista Argentina Agron.* 1: 165-212. 1 fig. (map). 1912.

Includes annotated systematic list of about 200 spermatophytes, with vernacular names.—See also his *Contribution à l'étude des plantes alimentaires indigènes cultivées en Argentine*. *Revue. Bot. Appl. et Agr. Trop.* 16: 177-189. fig. 4-6. 1936.

Paz Soldán, M. F. *Diccionario geográfico-estadístico nacional argentino*. x, 485 p. maps. 27 cm. Buenos Aires, 1885.

Includes (p. 46-58) list of medicinal and other useful plants, alphabetically arranged by vernacular names, with botanical names and Provinces.

Spegazzini, Carlos, and Girola, C. D. [Catálogo de las maderas.] *In* Catálogo descriptivo de las colecciones de productos naturales, agrícolas, animales é industriales . . . para la Exposición internacional de agricultura de 1910 . . . *Pub. Mus. Agr. Soc. Rural Argentina* 1: 322-413. 1911. (Reprinted with index, xv p., and title: Catálogo descriptivo de las maderas que se exhibieron en la Exposición internacional de agricultura de 1910, l. c., no. 1, app.)

List of 554 specimens (including duplications of species), with vernacular names, brief description of tree and wood, note on uses.

Storni, J. S. Vegetales que utilizaban nuestros indígenas para su alimentación. 102 p. map. 26 cm. [Tucumán?], 1937 (1938).

General considerations, geoethnographic regions; annotated list of wild and cultivated edible plants, arranged in no obvious order, with vernacular names and uses.

Local

Anonymous. *Flore de Tucumán*. *Herbier de M. Lillo*. Collection de MM. Schickendantz et Lillo. Tucumán. *In* Exposition universelle internationale de 1889 à Paris. Catalogue spécial officiel . . . de la République Argentine. p. 341-356. Paris, 1889.

Tabular list of about 600 vascular plants, with occasional vernacular names.

Álvarez, Antenor. *Flora y fauna de la provincia de Santiago del Estero*. 176 p. illus. 23 cm. Santiago del Estero, 1919.

Systematic list of vascular plants (p. 43-116); classified lists of useful plants (p. 119-126); bibliography.

Ball, John. Contributions to the flora of north Patagonia and the adjoining territory. *Jour. Linn. Soc. Bot.* 21: 203-240. 1884.

General features of geography, flora, etc.: annotated list of vascular plants collected in northern "Patagonia" (chiefly from region of Bahía Blanca) and southern Buenos Aires Province by G. Claraz, with vernacular names and uses.

Berg, Carlos. Enumeración de las plantas europeas que se hallan como silvestres en la provincia de Buenos Aires y en Patagonia. *Anales Soc. Cien. Argentina* 3: 183-206. 1877. (Reprinted.)

Annotated list of 154 plants, of which 148 are vascular.

Bettfreund, Carlos. *Flora argentina*. Recolección y descripción de plantas vivas . . . 3 v. 156 col. pl. 27 cm. Buenos Aires, [1898-1901].

Descriptions and rather crude colored plates (by F. Burmeister) of 156 phanerogams.

Burkill, I. H. Notes on some plants collected in the Aconcagua valleys by Philip Gosse. *In* FitzGerald, E. A. *The highest Andes* . . . p. 361-376. illus. London, 1899.

General features of flora; also annotated list of plants collected by Philip Gosse in the Las Cuevas and Horcones Valleys, mostly at 10,000 feet or higher.

Chodat, Robert, and Wilczek, Ernest. Contributions à la flore de la République Argentine. Énumération critique des plantes récoltées par M. E. Wilczek à Saint-Raphaël et dans la vallée de l'Atuel. *Bul. Herb. Boissier* II, 2: 281-296, 475-490, 521-544. 27 fig. 1902.

Itinerary, general features of flora; list of vascular plants, with references and data. (Province of Mendoza.)

Fries, R. E. Zur kenntnis des alpinen flora im nördlichen Argentinien. *Nova Acta R. Soc. Scient. Upsal. ser. IV, v. 1, no. 1.* 205 p. 2 fig., 9 pl., map. 1905.

Enumeration of the vascular plants hitherto known from the alpine region of northern Argentina (Prov. Jujuy, northern Salta, part of Los Andes), with synonymy, citation of exsiccatae, and statement of general range. The climate, plant formations, and plant geography are discussed; bibliography.

Gancedo, Alejandro. Flora arbórea del territorio nacional del Chaco y proyecto de ley. 237 p. illus., map. 28 cm. Buenos Aires, 1916.

Brief description of tree, wood, uses; photographs of nearly every species; list of species classified by uses, etc.

Grisebach, A. H. R. *Plantae lorentzianae*. Bearbeitung der ersten und zweiten sammlung argentinischer pflanzen des Professor Lorentz. Abhandl. K. Gesell. Wiss. Göttingen 19: 49-280. 2 pl. 1874. (Reprinted 231 p., 1874.)

Phytogeography, etc.; list of 927 vascular plants, with localities, occasional vernacular names, and frequent annotations.

Symbolae ad floram argentinam. Zweite bearbeitung argentinischer pflanzen. Abhandl. K. Gesell. Wiss. Göttingen 24: 3-345. 1879. (Reprinted 1879.)

Phytogeography; list of 2,265 vascular plants, with localities, occasional vernacular names, and frequent annotations. Based on collections of Lorentz, Hieronymus, and Schickendantz; includes all species listed in his *Plantae Lorentzianae*.

Hassler, Emil. Contribuciones à la flora del Chaco argentino-paraguayo. 1. parte. Florula pilcomayensis. Trab. Mus. Farm. Fac. Cien. Méd. Buenos Aires no. 21. 154 p. 1909.

Botanical explorations; bibliography; annotated list of 701 vascular plants known from the region of the lower Pilcomayo River.

Hauman, Lucien. Étude phytogéographique de la région du Río Negro inférieur (République Argentine). Anales Mus. Nac. Hist. Nat. Buenos Aires 24: 289-443. 19 fig. 1913.

Bibliography, geology, climate, plant associations, distribution; annotated list of 486 vascular plants. The area covered lies between the Río Negro and the Río Colorado, reaching about 100 km. inland.

La végétation de l'île de Martín García dans le Río de La Plata. Pub. Inst. Invest. Geog. Fac. Filos. y Letras Univ. Buenos Aires no. 10. 38 p. 3 fig. (incl. maps), 8 pl. 1925.

Physiography, climate, plant associations, etc.; annotated list of vascular plants. The area is noteworthy for the fact that its flora is essentially in its primitive condition.

La végétation des hautes cordillères de Mendoza (République Argentine). Anales Soc. Cien. Argentina 86: 121-188, 225-348. 7 fig. (incl. map), pl. 7-25. 1918.

Physiography, plant associations, statistics of flora, ecology, phytogeography; annotated list of 417 vascular plants; bibliography.

Hicken, C. M. *Canistellum Neuqueni*. Plantas recogidas en las cordilleras del Neuquén por el Sr. Franco Pastore . . . Physis 1: 116-133. 1912.

Geography, etc.; list of 129 vascular plants with locality, general and local range.

Chloris platensis argentina. 292 p. 26.5 cm. Buenos Aires, 1910. (Apuntes de historia natural, v. 2.)

A flora of the city of Buenos Aires and vicinity, being an annotated list of 1,261 vascular plants, with references and general range; bibliography.

Plantae fischerianae. Contribución al conocimiento de la flora del Río Negro. Physis 2: 1-18, 101-122. 1915-16.

Annotated list of 284 vascular plants collected by Walter Fischer in the vicinity of Río Negro, a station on the railroad from Bahía Blanca to Neuquén.

Plantae flossdorffianae in monte Famatina lectae . . . Darwiniana 1: 22-42. 1922.

Annotated list of 86 vascular plants collected at 3,000 to 4,000 meters altitude, with extralimital distribution. (Province of San Juan.)

Plantae Vattuonae. Darwiniana 1: 95-153. 2 fig. 1924.

Botanical exploration, general features of flora; bibliography; list of 187 vascular plants collected by Dr. Ildefonso Vattuone in 1923, with localities, local and general range, and frequent annotations. (Provinces of Jujuy and Salta.)

Primitiae sanzinianae. Las primeras plantas recogidas en Mendoza por Renato Sanzin. Darwiniana 2: 37-57. 1930.

List of about 300 vascular plants, with localities.

Hicken, C. M. *Sertularium andinum*. *Plantae a cl. Gerth lectae* . . . *Darwiniana* 1: 47-78. 1923.

Localities; annotated list of 117 spermatophytes, with localities. (Province of Mendoza, region of Río Atuel and Río Diamante.)

Hieronimus, Georg. *Sertum sanjuaninum* 6 descripciones y determinaciones de plantas fanerógamas y criptógamas vasculares recolectadas por el Dr. D. Saile Echegaray en la provincia San Juan. *Bol. Acad. Nac. Cien. Córdoba* (Rep. Argentina) 4: 3-73. plate. 1881.

Annotated list of 191 vascular plants.

Hosseus, C. C. *Flora argentina*. Estudios comparativos sobre la vegetación de las provincias de La Rioja y de San Juan. *Bol. Acad. Nac. Cien. Córdoba* (Rep. Argentina) 26: 5-160. 28 fig. 1921.

Itineraries of botanical collectors; annotated list of vascular plants (reaches Leguminosae, part).

Johnston, I. M. A collection of plants from the high cordilleras of north-western San Juan. *Physis* 9: 297-326. 1929.

Author's itinerary; annotated list of 89 vascular plants, with references.

Kerr, J. G. The botany of the Pilcomayo expedition; being a list of plants collected during the Argentine expedition of 1890-91 to the Río Pilcomayo. The identifications and the description of new species by Mr. N. E. Brown. *Trans. and Proc. Bot. Soc. Edinb.* 20: 44-78. 1894.

List of about 200 vascular plants (and 1 lichen) from the vicinity of Fortin Page, on the Río Pilcomayo, in the Gran Chaco.

Kurtz, Fritz. Dos viajes botánicos al Río Salado superior (Cordillera de Mendoza). *Bol. Acad. Nac. Cien. Córdoba* (Rep. Argentina) 13: 171-210. 1893.

Botanical explorations, general features of flora and annotated lists of plants of different botanical regions in the area; bibliography. German version (Bericht über zwei reisen zum gebiet des oberen Río Salado . . .) in *Verh. Bot. Ver. Prov. Brandenb.* 35: 95-120. 1895.

— Enumeration de las plantas recogidas por G. Bodenbender en la precordillera de Mendoza (Octubre de 1896). *Bol. Acad. Nac. Cien. Córdoba* (Rep. Argentina) 15: 502-522. 1897.

General features of flora, phytogeography; list of phanerogams, with locality and general range, collected between Chilcas and Challao on the north and Cacheuta and Puente del Ferro-carril Andino on the south.

Lillo, Miguel. Contribución al conocimiento de los arboles de la Argentina segun colecciones y observaciones de Santiago Venturi . . . vi, 127 p. 28.5 cm. Buenos Aires, 1910.—Segunda contribución . . . Notas sobre el herbario Venturi . . . 69 p. 22 cm. Tucumán, 1917.

Annotated list of 358 species (347 botanically identified), with vernacular names (indexed), localities, notes on size and use. The material is chiefly from northern and central Argentina.

— Estudio preliminar de una colección de plantas procedentes de Tartagal (departamento de Orán, Salta). [Pub.] *Mus. Cien. Nat. Univ. Nac. Tucumán* [6]: 3-14. 1925.

Annotated list of vascular plants, the families alphabetically arranged.

— Reseña fitogeográfica de la provincia de Tucumán. In *Reunión nacional de la Sociedad argentina de ciencias naturales*, 1st, Tucumán, 1916. p. 210-232. pl. 15-30 (incl. map). Buenos Aires, 1919. (Reprinted.)

Includes lists of vascular plants from different phytogeographic regions.

Lorentz, P. G. La vegetación del nordeste de la provincia de Entre-Ríos. 179 p. 2 maps. 27 cm. Buenos Aires, 1878.

General features of flora; briefly annotated list of species observed ("Florula entrerriana"), including fungi (by F. de Thümen); phytogeography. (Not seen; reference and annotation furnished by P. C. Standley.) Includes 620 vascular plants and 32 fungi, according to review in *Bot. Jahresber.* Just 6 (2): 1092-1094. 1882.

— and Niederlein, Gustav. Botánica. Enumeración sistemática de las plantas colectadas durante la expedición. In *Informe oficial de la Comisión científica* . . . de la expedición al Río Negro (Patagonia) realizada en los meses de Abril, Mayo y Junio de 1879 . . . Entrega II, Botánica. p. [171]-294. 12 pl. Buenos Aires, 1881.

Annotated list of 337 vascular plants from the southern pampas and from region of Río Colorado, Río Negro, and Río Neuquén. Essentially the same list of species, unannotated but with vernacular names added, with title: *Flora de la pampa de Buenos-Ayres, de Patagonie et des Andes australes*, appeared in *Exposition universelle internationale de 1889 à Paris. Catalogue spécial officiel . . . de la République Argentine*. p. 357-364. Paris, 1889.

Molfino, J. F. *Contribución a la flora de la región de Bahía Blanca*. Physis 5: 1-27. 6 fig. 1921.

Botanical explorations, topography, soils, plant associations; annotated list of 265 phanerogams.

— La flora espontánea del campo "Las Hermanas" en Gutiérrez (F. C. S.). *Anales Soc. Rural Argentina* 55: 279-287. 1921.

List of 441 vascular plants, with vernacular names. The locality is about 25 km. from Buenos Aires.

Monticelli, J. V. *Anotaciones fitogeográficas de la Pampa Central*. Lilloa 3: 251-382. 26 fig. (incl. maps), 16 pl. 1938.

Geological history, ecology, bibliography, etc.; annotated list of 311 plants, all but 1 vascular, with vernacular names. The area covered is essentially the Territory of La Pampa.

Niederlein, Gustav, and Hieronymus, Georg. *Résultats de l'exploration du territoire de Misiones de 1883 à 1888*. In *Exposition universelle internationale de 1889 à Paris. Catalogue spécial officiel . . . de la République Argentine*. p. 270-340. Paris, 1889.

Tabular list of 1,553 vascular plants and lichens, with occasional vernacular names, statistics, ecological groupings, etc. Apparently the same material with Niederlein as author and with title: *Resultados botánicos de exploraciones hechas en Misiones, Corrientes y países limítrofes desde 1883 hasta 1888*, in *Bol. Mens. Mus. Prod. Argent.* 3: 273-347. 1890.

Parodi, L. B. *Ensayo fitogeográfico sobre el partido de Pergamino*. Estudio de la pradera pampeana en el norte de la provincia de Buenos Aires. *Revista Fac. Agron. y Vet. Univ. Buenos Aires* 7: 65-271. 23 fig. (incl. maps), 16 pl. 1930. (Reprinted.)

Physiography, soil, climate, plant associations, phenology, dissemination, modifications in flora caused by civilization, etc.; annotated list of 488 vascular plants; bibliography.

Pilar Rodrigo, América del. Una excursión botánica a la provincia de Corrientes. *Revista Mus. La Plata n. s.*, 1937 (Secc. Of.): 100-110. 5 fig. (incl. map). 1938.

Running account, including mention of a large number of species with vernacular and botanical names.

Ringuelet, E. J. *Estudio fitogeográfico del Rincón de Viedma* (Bahía de Samborombón). *Revista Fac. Agron. Univ. La Plata* 21: 15-186. 8 fig. (incl. map), 18 pl. 1938.

Mainly ecological; includes annotated list of 173 vascular plants. His *Flora del Rincón de Viedma . . .* (resumen), *Physis* 15: 491-493. 1939, is an abstract of the above. (East coast of the Province of Buenos Aires.)

Schickendantz, Friedrich. *Catálogo razonado de las plantas medicinales de Catamarca*. *Anales Circulo Med. Argentino* 5: 52-53, 119-126, 247-255. 1881-82. Annotated systematic list, with vernacular names.

Sekt, Hans. *Flora bonariensis*. Clave para la determinación de las familias y de los géneros de las plantas. 302 p. 19.5 cm. Buenos Aires, 1918.

Keys to families and genera of region of Buenos Aires, with list of more conspicuous species; glossary.

— *Flora cordobensis*. Clave para la determinación de las familias y de los géneros de las plantas que se encuentran silvestres ó cultivadas en la provincia de Córdoba. 632 p. 22 pl. 24.5 cm. Córdoba (Rep. Arg.), 1929-30. (Reprinted from *Revista Univ. Nac. Córdoba* v. 16 and 17.)

Descriptive keys to families and genera of spermatophytes; annotated alphabetical list of species under each family, with vernacular names; glossary.

Spegazzini, Carlos. *Contribución al estudio de la flora de la Sierra de la Ventana*. 86 p. 27 cm. La Plata, 1896.

Annotated list of 251 vascular plants (also cellular plants) of the Sierra de la Ventana, Province of Buenos Aires; estimated by the author to represent at least two-thirds of the flora. Published by the "Ministerio de obras públicas de la

provincia de Buenos Aires."—See also his *Algunas observaciones sobre la flora de la Ventana*. *Revista Fac. Agron. y Vet. La Plata* 2: 347-349. 1896.

Spegazzini, Carlos. *Contribución al estudio de la flora del Tandil*. 60 p. 26.5 cm. La Plata, Buenos Aires, 1901.

Annotated list of 370 vascular (and a few cellular) plants of the Sierras de Tandil, Province of Buenos Aires.

— Flora de la provincia de Buenos Aires. v. 1 (xiv, 161 p.). illus. 27 cm. Buenos Aires, 1905. (At head of title: *Anales del Ministerio de agricultura República Argentina. Secc. de biología vegetal.*)

Plant formations; descriptive flora of vascular plants, with keys, vernacular names, uses. Incomplete (only vol. 1 published); includes Ranunculaceae-Anacardiaceae.

— Flórlula de la ciudad de La Plata y su partido. *Bol. Oficina Agr. Ganad. Prov. Buenos Aires* 1: 101-105, 159-170, 197-208, 235-245, 265-275, 299-310, 331-341, 365-371. 1901; 2: 392-402, 485-498. 1902.

Annotated descriptive flora, with keys, vernacular names, and uses. Incomplete; Ranunculaceae-Leguminosae (part).

BOLIVIA

See also Argentina (Kurtz); Colombia (Weddell).

The following publications have not been available:

Díaz Romero, Belisario. *Farmacopea callaguaya. Enumeración de las plantas medicinales y productos naturales que emplean los Callaguayas*. 13 p. La Paz, 1904. [Cited from Kurtz, *Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina)* 20: 376. 1915.]

Peña, Rafael. *Flora cruceña*. 287 p. 8°. Sucre, 1901. (Cited from Kurtz, *Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina)* 20: 393. 1915.)—For extract from this work, see Serrano, Honorio. *Flora boliviana*. *Geo: Agr., Colon. y Ramas Anex. Bolivia época* 4, no. 17 (unpaged). 1938. (Annotated list of medicinal plants, alphabetically arranged by vernacular names.)

General

Granado, J. T. del. *Plantas bolivianas*. 284 p. illus. (incl. maps), 5 col. pl. 22.5 cm. La Paz, 1931.

Treats of useful plants, cultivated and wild.

Herzog, Theodor. *Die pflanzenwelt der bolivischen Anden und ihres östlichen vorlandes*. viii, 258 p. 25 fig., 3 maps. 25.5 cm. Leipzig, 1923. (Die vegetation der erde, v. 15.)

Botanical explorations, bibliography (95 titles); phytogeography, plant formations, useful plants, list of vernacular names, etc.

Local

Buchtien, Otto. *Contribuciones a la flora del Bolivia, I. parte*. 197 p. 22 cm. La Paz, 1910.

List only, with descriptions of new species and citation of localities, apparently confined to the author's collections. No citation of exsiccatae.

Hemsley, W. B., and Pearson, H. H. W. On a small collection of dried plants obtained by Sir Martin Conway in the Bolivian Andes. *Jour. Linn. Soc. Bot.* 35: 78-90. 1901.

Botanical explorations, general features of flora; annotated list of 46 angiosperms collected at localities up to 18,700 feet, 38 of the species being from 12,000 feet or above.

Herzog, Theodor. *Die von Dr. Th. Herzog auf seiner zweiten reise durch Bolivien in den jahren 1910 und 1911 gesammelten pflanzen I-VI*. *Meded. Rijks Herb. Leyden* no. 19. 84 p. 1913; no. 27. 90 p. pl. 1915; no. 29. 94 p. 1916; no. 33. 19 p. 1918; no. 40. 77 p. 1921; no. 46. 31 p. 1922.

Treatments of various families by specialists. A list of the families published through 1921 (pt. 1-5) is contained in Herzog's *Die pflanzenwelt der bolivischen Anden . . . Vegetation der erde* 15: 19-22. 1923.

— *Pflanzenformationen Ost-Bolivias*. *Bot. Jahrb. Engler* 44: 346-405. pl. 3 (map). 1910.

Ecological; includes (p. 399-404) alphabetical list of vernacular names, with botanical equivalents; bibliography.

Rusby, H. H. New species from Bolivia collected by R. S. Williams. *Bul. N. Y. Bot. Gard.* 6: 487-517. 1910; 8: 89-135. 1912.

Descriptions of new species only, systematically arranged; the ferns, grasses, and orchids omitted. A few of the species are from Peru.

— On the collections of Mr. Miguel Bang in Bolivia. *Mem. Torrey Club* v. 3, no. 3. 67 p. 1893; 4: 203-274. 1895; 6: 1-130. 1896. *Bul. N. Y. Bot. Gard.* 4: 309-470. 1907.

List of species collected, from 1885 on, with localities and collecting numbers; complete except for Gramineae. Specimens of Rusby and R. Pearce are also cited.

— and Britton, N. L. An enumeration of the plants collected by Dr. H. H. Rusby in South America, 1885-1886. *Bul. Torrey Club* 15: 177-184. 1888; 23: 471-499. 1896; 15: 247-253. 1888; 16: 13-20, 61-64, 153-160, 189-192, 259-262, 324-327. 1889; 17: 9-12, 53-60, 91-94, 211-214, 281-284. 1890; 18: 35-38, 107-110, 261-264, 331-334. 1891; 19: 1-4, 148-151, 263-266, 371-374. 1892; 20: 137-140. 1893; 25: 495-500, 542-545. 1898; 26: 142-152, 189-200. 1899; 27: 22-31, 69-84, 124-137. 1900; 28: 301-313. 1901; 29: 694-704. 1902. (Reprinted as *Contrib. Dept. Bot. Columbia Univ.* no. 6, 181, 200. 229 p.)

Systematic list of cellular and vascular plants with localities, collecting numbers, and occasional annotations. The plants are mostly from Bolivia. Treatment of cryptogams by E. G. Britton and others. Pt. II (Mosses) has title: An enumeration of the plants collected by H. H. Rusby, in Bolivia, 1885-86.

BRAZIL

See also Argentina (Kurtz).

General

Almeida Pinto, Joaquim de. *Dicionario de botanica brasileira ou compendio dos vegetaes do Brasil, tanto indigenas como acclimados* . . . Coordenado e redigido em grande parte sobre os manuscritos do Dr. Arruda Camara . . . xix, 433 p. 16 pl. 27 cm. Rio de Janeiro, 1873.

Annotated list, arranged alphabetically by vernacular names, with botanical equivalents and uses; no index of scientific names.

Corrêa, M. P. *Dicionario das plantas uteis do Brasil e das exoticas cultivadas.* v. 1-2. illus., plates. 32.5 cm. Rio de Janeiro, 1926-31.

Annotated list, alphabetically arranged by vernacular names, with brief descriptions, uses, range, vernacular names, frequent chemical analyses; index of botanical and vernacular names. Incomplete (A-E).

— *Flora do Brazil. Algumas plantas uteis, suas applicações e distribuição geographica.* xi, 154 p. 24 cm. Rio de Janeiro, 1909.

Briefly annotated lists of woods and useful plants, alphabetically arranged by vernacular names; index of botanical names.

Fonseca, Eurico Teixeira da. *Indicador de madeiras e plantas uteis do Brasil.* v, 343 p. 23 cm. Rio de Janeiro, 1922.

Annotated list of woods and useful plants, alphabetically arranged by vernacular names; no index of botanical names.

Freise, F. W. *Plantas medicinaes brasileiras.* *Bol. Agr. São Paulo* 34: 252-494. 1933. (Reprinted.)

Annotated list, arranged alphabetically by vernacular names, with brief descriptions, uses, dosage; list of botanical names, with vernacular equivalents.

Hoehne, F. C. *Plantas e substâncias vegetais tóxicas e medicinais.* 355 p. 252 fig., 26 col. pl. 32.5 cm. S. Paulo-Rio, 1939. (Originally published in "O Estado de S. Paulo," 1934-38.)

Running account in systematic order, with vernacular names; not confined to plants of Brazil.

Löfgren, Alberto. *Manual das familias naturaes phanerogamas. Com chaves dichotomicas das familias e dos generos brasileiros.* xviii, 611 p. 24.5 cm. Rio de Janeiro, 1917.

Keys to families and genera, with family descriptions; brief notes on uses (including extralimital forms); some vernacular names.

Martius, K. F. P. von. *Systema materiae medicae vegetabilis brasiliensis.* xxvi, 155 p. 22 cm. Lipsiae, Vindobonae, 1843.

Annotated lists, classified by uses; vernacular names.

Martius, K. F. P. von. Ueber die pflanzen-namen in der Tupi-sprache. 18 p. 25 cm. München, 1858. (Reprint from Bul. K. Bayer. Akad. Wiss. 1858, no. 1-6.—Also in his Beiträge zur ethnographie und sprachenkunde Amerika's, zumal Brasiliens. v. 2, p. 371-427. Leipzig, 1867.)

Notes on the language; alphabetical list of vernacular names, with botanical equivalents and usually indication of locality.

— Eichler, A. W., and Urban, Ignatz, eds. Flora brasiliensis . . . 15 v. in 40. 3805 pl., 2 maps. 47.5 cm. Monachii, Lipsiae, 1840-1906.

Descriptive flora of vascular plants and mosses, by many collaborators; includes some extralimital species of bordering regions. The greatest of floras, containing 20,733 pages (i. e., columns; and excluding indices), with descriptions of 22,767 species (5,689 described as new), of which 6,246 are illustrated. Vol. 1, pt. 1 contains biographical sketches of principal Brazilian collectors, with their itineraries (those of the earlier collectors shown on a map), biographical sketches of the collaborators, chronological list of fascicles, systematic list of contents, index of families, and various statistics; also an illustrated account of plant formations. Urban gives the number of plates as 3,811.

Matta, A. A. da. Flora medica brasiliense. 318 p. 19 cm. Manaos, 1913.

Annotated list, the species arranged alphabetically by vernacular names (indexed); bibliography.

Mello Moraes, A. J. de. Phytographia ou botanica brasileira applicada á medicina, ás artes e á industria. Seguida de um supplemento de materia medica, inclusive as plantas conhecidas e applicadas pelos indios em suas enfermidades. lxxix, 464 p. port. 24 cm. Rio de Janeiro, 1881.

Annotated list of useful plants, alphabetically arranged by vernacular names; no index of botanical names. The appendix includes accounts of the medicinal plants of Espirito Santo and Pernambuco, etc., by other authors.

Moreira, N. J. Dictionario de plantas medicinaes brasileiras. 144 p. 22 cm. Rio de Janeiro, 1862.—Supplemento . . . 57 p. Rio de Janeiro, 1871.

Alphabetical list of vernacular names, with botanical equivalents and uses.

Peckolt, Theodor. Brasilianische nutz- und heilpflanzen. Pharm. Rundsch. (N. Y.) 11: 133-136, 181-184, 257, 287-289. 1893; 12: 35-39, 87-88, 109-112, 165-169, 187-189, 240-242, 285-287. 1894; 13: 33-36, 89-91, 215-217, 237-240. 1895. Pharm. Rev. 14: 51-54, 80-84, 154-156, 225-227, 246-250. illus. 1896; 15: 25-27, 44-46, 70-72, 131-135, 154-155, 236-237. 1897. Pharm. Arch. 1: 71-72, 85-92, 127-136, 167-168, 185-188, 200-208, 229-236. 1898; 2: 92-100. 1899; 3: 141-151, 161-163. 1900; 4: 41-55. 1901. Pharm. Rev. 20: 51-54, 110-112, 492-497. 1902.

Brief descriptions, vernacular names and uses; families not in systematic order. Title varies; paper partly in German, partly in German with English translation. Pharmaceutical Review is a continuation of Pharmaceutische Rundschau. Title of parts in Pharm. Rev. is Medicinal plants of Brazil. Incomplete; chiefly Monocotyledones and Apetalae.

— Heil-und nutzpflanzen Brasiliens. In Ber. Deut. Pharm. Gesell. v. 6-16, 19-22. 1897-1906, 1909-12.

Annotated list with vernacular names, uses, and often chemical analyses; species arranged by families. Title varies; is sometimes "Nutz- und heilpflanzen." Incomplete; chiefly Polypetalae and Gamopetalae.

— Historia das plantas alimentares e de gozo do Brasil contendo generalidades sobre a agricultura brasileira, a cultura, uso e composição chimica de cada uma dellas. 5 pt. 9 tab. 21 cm. Rio de Janeiro, 1871-84.

Geology, climate, agriculture, useful plants in general; edible plants discussed in detail (alphabetically arranged by vernacular names; incomplete; reaches cacaozeiro only), also milho (*Zea mays*), mandioca, coffee.

— Die nahrungs- und genussmittel Brasiliens. Zeitschr. Allg. Oesterr. Apoth.-Ver. 20: 425-430, 442-446, 459-464, 478-484, 496-501, 510-515. 1882.—Verzeichniss von volksnamen und botanischen benennungen . . . l. c. 21: 182-186, 197-200, 214-216. 1883.

General account of plant formations, soils, agriculture, edible plants; alphabetical index of vernacular names mentioned, with botanical equivalents.

— Volksbenennungen der brasilianischen pflanzen und produkte derselben in brasilianischer (portugiesischer) und der von der Tupisprache adoptirten namen. Pharm. Arch. 1: 14-17, 97-102, 149-161, 216-228, 237-248. 1898; 2: 12-20, 26-40, 50-60, 78-80, 100, 117-120, 301-312, 328-332, 372. 1899; 3: 18-20, 41-47, 61-68, 181-189. 1900; 4: 28-36, 96-100, 116-120, 137-140, 173-180,

192-200. 1901; 5: 37-40, 76-80, 93-100, 112-116, 125-132. 1902-03; 6: 14-16, 22-23, 64, 79-80, 93-96, 124-128. 1903. Pharm. Rev. 23: 76-80, 236-238, 369-375. 1903; 24: 17-24, 33-38, 65-68, 161-165, 193-199, 225-227. 1906. (Reprinted as Pharmaceutical science series. Monographs no. 15. 1907.)

Extensive list of vernacular names with botanical equivalents.

Peckolt, Theodor, and Peckolt, Gustavo. Historia das plantas medicinaes e uteis do Brazil contendo a descripção botânica, cultura, partes usadas, composição chimica, seu emprego em diversas molestias, doses, usos industriaes, etc. 8 v. 21.5 cm. Rio de Janeiro, 1888-1914.

Annotated systematic list with brief description, uses, and often chemical analyses. Vol. 1, 230 p., vol. 2-7, 1369 p., vol. 8, 137 p. (the last not seen; cf. Revista Flora Med. 2: 531).—For alphabetical index to the botanical and vernacular names see Costa, O. de A. Indice analytico . . . In Revista Flora Med. (Rio de Janeiro) v. 2, no. 9-v. 4, no. 11. 1936-38.

Sampaio, A. J. de. Bibliographia botanica, relativa á flora brasileira, com inclusão dos trabalhos indispensaveis aos estudos botanicos no Brasil. Bol. Mus. Nac. Rio de Janeiro 1: 111-125, 225-245. 1924; 2 (3): 35-61, (5): 19-38. 1926; 3 (1): 37-45. 1927; 4 (3): 97-119. 1928.

A series of lists, alphabetically arranged by authors, of works published since 1840. Very incomplete, and including many works not relating to the flora of Brazil.—See also his Apontamentos para a revisão da Flora brasiliensis de Martius. Lavoura (Rio de Janeiro) 17: 19-53. 1913.

Local

Barbosa Rodrigues, João. Mbaé kaá tapuiyetá enoyndana, ou a botânica e a nomenclatura indígena . . . vi, 87 p. tab. 25 cm. Rio de Janeiro, 1905.

Includes (p. 50-68) list of Tupy vernacular names of plants, in part systematically arranged, with derivations and botanical equivalents.

Bornmüller, Joseph. Flora riograndensis. Bearbeitung der von Alfred Bornmueller in den Jahren 1903 bis 1907 in Rio Grande do Sul gesammelten pflanzen. Revista Sudamer. Bot. 1: 129-148, 161-168. 1934; 2: 1-10, 33-48. 1935.

List of vascular plants, with localities and collector's numbers.

Dusén, Per. Sur la flore de la Serra do Itatiaia au Brésil. Arch. Mus. Nac. Rio de Janeiro 13: 1-119. 1905.

Botanical explorations, topography, geology; two annotated lists of vascular plants (and hepatics), one of the species of higher elevations, the other of those of lower elevations.—Supplementary notes published by author under title: Beiträge zur flora des Itatiaia. Arkiv Bot. v. 8, no. 7. 26 p. 10 fig., 5 pl. 1909; v. 9, no. 5. 50 p. 5 fig., pl. 1910.—Itatiaia, in the State of Rio de Janeiro, is generally regarded as the highest elevation in Brazil.

Edwall, Gustavo. Indice das plantas do herbario da Comissão geographica e geologica de S. Paulo. Bol. Commis. Geog. e Geol. São Paulo 11: 49-215. 1896.

List of vascular and cellular plants, with localities and dates; the families alphabetically arranged.

Emrich, Karl. Os nomes populares das plantas do Rio G. do Sul . . . 76 p. 22.5 cm. Porto Alegre, 1935.

Lists of vernacular and botanical names, with equivalents.

Freise, F. W. Namensverzeichnis brasilianischer werkhölzer. Zeitschr. Weltforstw. 2: 563-576. 1935.—Nachträge. l. c. 4: 704-708. 1937.

Alphabetical lists of vernacular names of trees furnishing commercial woods, with botanical name and locality where vernacular name is used.

Garcia, Rodolpho. Dicionario de brasileirismos (peculiaridades pernambucanas). xviii, 291 p. 25 cm. Rio de Janeiro, 1915.

Bibliography; alphabetical list of words including many vernacular names of plants, with etymology and botanical equivalents; no index of botanical names. Appeared also in Revista do Instituto historico e geographico brasileiro, and as a reprint from the same (p. 637-947. 1915).

Glaziou, A. F. M. Plantae Brasiliae centralis a Glaziou lectae. (Liste des plantes du Brésil central recueillies en 1861-1895.) Mém. Soc. Bot. France 3. 661 p. port. 1905-13.

Systematic list, with data and collector's numbers, of the dicotyledons only out of a total of more than 12,000 species collected by the author in Rio de Janeiro, São Paulo, Espírito Santo, Minas Geraes, and Goyaz; brief account of climate, topography, soils, etc.

Hoehne, F. C. *Botanica* [Matto Grosso ao Amazonas] pt. 1-12. 216 pl. 32 cm. (pt. 7, 23 cm.) Rio de Janeiro, 1910-22. (Comissão de linhas telegraphicas e estrategicas de Matto Grosso ao Amazonas. Anexo 5, Historia natural.)

Annotated list of species of various families collected by the author in Matto Grosso and Amazonas, partly contributed by other authors. Plates 1-63 are in atlas to pt. 1; pts. 7, 10, and 11 have plates numbered separately (5, 13, 6); the remainder of the plates continue the numbering of pt. 1.

Huber, Jacques. *Lista das plantas colligidas na Ilha de Marajó no anno de 1896* (Materiaes para a flora amazonica I). Bol. Mus. Paraense Hist. Nat. e Ethnogr. 2: 288-321. 2 pl. 1898.

Plant formations, etc.; list of 245 vascular plants, with vernacular names, locality, and general range. (In mouth of Amazon.)—See also, for corrections and account of plant formations, his *Sur la végétation du Cap Magoary et de la côte atlantique de l'île de Marajó (Amazonie)*. Bul. Herb. Boissier II, 1: 86-107. 1901.—See also Miranda, V. C. de. *Os campos de Marajó e a sua flora considerados sob o ponto de vista pastoril* . . . Tres capitulos extrahidos d'uma obra posthuma . . . publicados e anotados pelo Dr. J. Huber. Bol. Mus. Goeldi Hist. Nat. e Ethnogr. 5: 96-151. 1908. (Plant associations, annotated lists of forage and nonforage plants, alphabetically arranged by vernacular names; alphabetical list of vernacular names with botanical equivalents.)

Plantae cearenses. *Listes des plantes phanérogames récoltées dans l'état brésilien de Ceará en septembre et octobre 1897*. Bul. Herb. Boissier II, 1: 290-329. 1901.

Plant zones, etc.; list of phanerogams collected by author, with data and general range.

Plantae duckeanae austro-guyanenses. *Enumeração das plantas siphonogamas colleccionadas de 1902 a 1907 na Guyana brasileira pelo Sr. Adolphe Ducke* . . . (Materiaes para a flora amazonica VII.) Bol. Mus. Goeldi Hist. Nat. e Ethnogr. 5: 294-436. map. 1909.—*Plantae duckeanae austro-guyanenses*. Bul. Soc. Bot. Genève II, 6: 179-212, 215-216. 17 fig. 1914.

Itinerary, general features of flora of various localities; list of phanerogams collected in Pará, with data and general range. Incomplete: pt. 1 covers Alismaceae-Meliaceae; pt. 2 contains only descriptions of new species.

Plantas vasculares colligidas ou observadas na região dos Furos de Breves em 1900 e 1901. (Materiaes para a flora amazonica V.) Bol. Mus. Paraense Hist. Nat. e Ethnogr. 3: 400-446. 1902.

List of 189 vascular plants, with vernacular names, locality, and general range. The specimens come mostly from Rio Aramã and Boa Vista do Macujubim, at the mouth of the Amazon between the Amazon and the estuary of the Pará.

Le Cointe, Paul. *A Amazonia brasileira III. Arvores e plantas uteis* (indigenas e acclimadas) . . . viii, 486 p. plates. 24 cm. Belem-Pará, 1934.

List of plants, alphabetically arranged by vernacular names, with brief account of uses; index of generic names. This is vol. 3 of his *L'Amazonie brésilienne*.

Löfgren, Alberto. *Ensaio para uma synonymia dos nomes populares das plantas indigenas do estado de S. Paulo*. 115 p. 22.5 cm. S. Paulo, 1895.—2. parte por Gustavo Edwall. 70 p. 22.5 cm. São Paulo, 1906. (Boletim da Comissão geographica e geologica de São Paulo no. 10, 16.)

Alphabetical lists of vernacular names, with brief description and account of uses; index. Includes introduced species.

— and Edwall, Gustavo. *Flora Paulista I-IV*. 4 v. 22 cm. São Paulo, 1897-1905. (Boletim da Comissão geographica e geologica de São Paulo no. 12-15.)

Keys and descriptions (in Portuguese), based on *Flora brasiliensis* and later monographs, of the plants of São Paulo. Parts 1 and 3 by Löfgren, 2 and 4 by Edwall. Incomplete; covers (v. 1) Compositae; (2) Solanaceae, Scrophulariaceae; (3) Campanulaceae, Cucurbitaceae, Calyceraceae, Valerianaceae; (4) Myrsinaceae.

Luederwaldt, Hermann, and Fonseca, José Pinto da. Lista das plantas collecionadas e observadas. In their A Ilha dos Alcatrazes. Revista Mus. Paulista 13: 500-509. 1923.

List of about 170 cellular and vascular plants collected in 1920, with some vernacular names. (Off coast of São Paulo.)

Luetzelburg, Philipp von. Estudo botânico do nordeste. Pub. Inspect. Fed. Obras Contra Seccc. (Brasil) no. 57, Sér. I, A. 3 v. plates (incl. map) and atlas of fold. maps. [1922-23.]

Includes (v. 3, p. 95-261) list of vascular and cellular plants collected by the author in northeastern Brazil, with localities, the families arranged alphabetically; (p. 263-271) alphabetical list of vernacular names. Refers principally to region from Bahia to Piahy and Ceará, but includes some States south of this area.

Lutz, Bertha. The flora of the Serra da Bocaina. Proc. Amer. Phil. Soc. 65 (Suppl.): 27-43. 1926.

General features of flora; list of vascular plants, chiefly collected by Dr. Adolphe Lutz. The Serra de Bocaina is part of the Serra do Mar, in São Paulo, and about 50 km. from Itatiaya.

Malme, G. O. A. Zur kenntnis der phanerogamenflora des sandgebietes im süden von Rio Grande do Sul. Svensk Bot. Tidskr. 30: 1-29. 1936.

Botanical explorations, general features of flora; list of spermatophytes, with localities and occasional annotations.

Moore, S. LeM. The phanerogamic botany of the Matto Grosso expedition, 1891-92. Trans. Linn. Soc. Bot. II, 4: 265-516. pl. 21-39, map. 1895.

Annotated list of phanerogams collected by the author in the Province of Matto Grosso; general features of vegetation, climate, analysis of flora.

Navarro de Andrade, Edmundo, and Vecchi, Octavio. Les bois indigènes de São Paulo. v, 376 p. illus. 22.5 cm. São Paulo, 1916.

Vernacular names, brief descriptions, uses, illustration of fruit of most species; bibliography. Species alphabetically arranged by vernacular names, no botanical index.

Novaes, José de Campos. Index florae campinensis. Revista Centro Sci., Letr. e Art. Campinas 6: 57-76. 1904.

Unannotated list of 731 phanerogams of Campinas, São Paulo, the families arranged alphabetically.

Pereira, Huascar. Pequena contribuição para um dicionario das plantas uteis do estado de S. Paulo (indigenas e aclimadas). 779 p. illus. 23 cm. São Paulo, 1929.

Annotated list of wild and cultivated useful plants, alphabetically arranged by vernacular names; bibliography, glossary; no index of scientific names.

Pickel, Bento. Catálogo do herbário da Escola Superior de Agricultura em Tapera (Pernambuco). (Herbarium Pickel.) Bol. Mus. Nac. Rio de Janeiro 13: 63-132. 1938.

General features of flora; list of vascular plants collected by the author in the States of Pernambuco and Paraíba, with data. The part cited includes Ophioglossaceae-Cyperaceae.

Pilger, Robert. Beitrag zur flora von Mattogrosso. Botanischer bericht über die expedition von Dr. Herrmann Meyer nach Central-Brasilien 1899. Bot. Jahrb. Engler 30: 127-238. 1 fig. (map). 1901.

Botanical explorations and publications; list of angiosperms collected, with data; ecology.

Pinheiro, E. C. As florestas e as essencias florestaes do estado do Pará. Bol. Min. Agr., Ind. e Comm. (Brasil) 19: 552-585, 709-738. illus. 1930.

Includes (p. 566-575) list of 423 timbers alphabetically arranged by vernacular names, with botanical equivalents.

Rocha, F. D. da. Botanica medica cearense. 144 p. 17 cm. Ceará, 1919.

Annotated list of medicinal plants, alphabetically arranged by vernacular names; systematic list of botanical names, with vernacular equivalents.

Sampaio, A. J. de. Contribuição ao estudo da flora do estado de Minas Geraes (Brasil). Arch. Mus. Nac. Rio de Janeiro 18: 1-38. 1916.

General features of flora; list of plants collected between Palmyra and Queluz de Minas in 1905-06, with localities and vernacular names (indexed).

Sampaio, A. J. de. A flora de Matto Grosso. Memoria em homenagem aos trabalhos botânicos da Comissão Rondon. Arch. Mus. Nac. Rio de Janeiro 19: 1-125. 11 maps. 1916.

Botanical explorations; compiled list of cellular and vascular plants, with localities and collectors' names; bibliography.

— Nomes vulgares de plantas de Amazonia (com anotações de A. Ducke). Bol. Mus. Nac. Rio de Janeiro 10: 3-69. 1934.

Alphabetical list of vernacular names with botanical equivalents.

— Nomes vulgares de plantas do Distrito Federal e Estado do Rio. Bol. Mus. Nac. Rio de Janeiro 13: 161-293. 1938.

Alphabetical list of vernacular names, with botanical equivalents.

Smith, L. B. Relação das plantas vasculares colhidas no norte e nordeste do Brasil. Bol. Inspec. Fed. Obras Contra Sec. (Brasil) 10: 123-156. 1938.

List of vascular plants, with data, collected by Dr. Francis Drouet in 1935 in the States of Pará and Ceará.

Tastevin, Constantino. Nomes de plantas e animais em lingua Tupy. Revista Mus. Paulista 13: 687-763. 1923. (Reprinted, 75 p.)

Alphabetical list of vernacular names, somewhat annotated, and with scientific names where known.

Usteri, Alfred. Flora der umgebung der stadt São Paulo in Brasilien. 271 p. 72 fig., 1 pl., map. 25.5 cm. Jena, 1911.

History, botanical explorations, climate, geology, plant formations, phenology, bibliographies; key (in Latin) to families, genera, and species of vascular plants.

Warming, Eugenius. Lagoa Santa. Et bidrag til den biologiske plantegeografi. K. Danske Vidensk. Selsk. Skr. Naturv. og Math. Afd. VI, 6: 153-488. 43 fig., pl. 1892.

Ecological; includes (p. 414-436) unannotated list of cellular and vascular plants; French résumé, bibliography.—Portuguese translation by Alberto Löfgren. 282 p. Bello Horizonte, 1909. (Minas Geraes.)

Wettstein, Richard, and Schiffner, Viktor. Ergebnisse der botanischen expedition der Kaiserlichen akademie der wissenschaften nach Südbrasilien 1901. 2 v. in 3. Denkschr. Math.-Naturw. Kl. K. Akad. Wiss. Wien v. 79, pt. I-II, vi, 454 p. 23 fig. (incl. map), 41 pl. (pt. col.). 1908-31; v. 83. 358 p. 15 fig., 24 pl. 1927.

Itinerary; list of plants collected, with data and frequent annotations. Incomplete; includes pteridophytes, gymnosperms, and various families of monocotyledons, dicotyledons, and cellular plants. (São Paulo, with a few plants from Paraná and Rio de Janeiro.)

BRITISH GUIANA

General

Dalton, H. G. Natural history of British Guiana. The vegetable kingdom. In his The history of British Guiana . . . v. 2, p. 169-264. London, 1855.

Includes notes on cultivated and wild economic plants; an unannotated alphabetical list of vernacular names of "some of the most common trees and plants," with botanical names; a similar annotated list without botanical names, of timber trees; and an unannotated systematic list of cellular and vascular plants, without authorities, compiled from various sources and of little use as a flora.

Harrison, J. B., and Bancroft, C. K. Food plants of British Guiana. Jour. Bd. Agr. Brit. Guiana 10: 143-177. 1917. (Reprinted 1, c. v. 19, no. 1, 1926.)

Briefly annotated lists of wild and cultivated food plants, alphabetically arranged by vernacular names.

Hohenkerk, L. S. Botanical identifications of British Guiana trees and plants. Jour. Bd. Agr. Brit. Guiana 11: 98-106, 178-185. 1918; 15: 196-199. 1922.

List of miscellaneous plants, with vernacular (mostly Arawak) names, the families arranged alphabetically.

— British Guiana timbers. Jour. Bd. Agr. Brit. Guiana 12: 152-185. 1919.

List of about 60 important timber trees, alphabetically arranged by vernacular names; properties of each wood.

— A list of British Guiana woods. Timehri III, 4: 244-293. 1917.

Bibliography; annotated alphabetical list of vernacular and botanical names of trees about 250 species).

Rodway, James. On some of the domestic medicines used in Guiana. *Timehri* 4: 294-300. 1885.

Running account of wild medicinal plants.

Schomburgk, Richard. Versuch einer fauna und flora von Britisch Guiana. (Flora.) *In* his Reisen in Britisch-Guiana in den Jahren 1840-44. v. 3, p. 787-1212, 1226-1260. Leipzig, 1848.

Brief account of plant geography; annotated list of cellular and vascular plants, divided into 4 groups according to habitat and based on his own collections and those of Robert Schomburgk and earlier botanists.

Stone, Herbert, and Freeman, W. G. The timbers of British Guiana. A report upon a collection made by the Hon. A. G. Bell . . . 110 p. pl. 22 cm. London, 1914.

List of 97 trees, arranged alphabetically by vernacular names, with specific names when known, description of wood, bark, uses; bibliography.

Local

Bentham, George. Contributions towards a flora of South America. Enumeration of plants collected by Mr. Schomburgk in British Guiana. *Jour. Bot. Hook.* 2: 38-103, 127-146, 210-223, 286-324. 1840; 3: 212-250. 1841; 4: 99-133, 321-323. 1842. *London Jour. Bot.* 1: 193-203. 1842; 2: 42-52, 359-378, 670-674. 1843; 4: 622-637. 1845; 5: 351-365. 1846.

List of 997 ("912") vascular plants, with localities and frequent annotations, collected by Robert Schomburgk. Includes also some plants from French Guiana by other collectors.

Brown, N. E., and others. Report on two botanical collections made by Messrs. F. V. McConnell and J. J. Quelch at Mount Roraima in British Guiana. *Trans. Linn. Soc. Bot. II*, 6: 1-107. 14 pl. 1901.

Physiography, phytogeography, etc.; list of known flora (above 5,000 feet), with extralimital range (401 species, of which 327 are vascular plants); bibliography; partly annotated list of plants collected (by N. E. Brown, C. H. Wright, et al.).

Davis, T. A. W., and Richards, P. W. The vegetation of Moraballi Creek, British Guiana: an ecological study of a limited area of tropical rain forest. *Pt. II. Jour. Ecology* 22: 106-155. 2 fig., pl. 12-14. 1934.

Includes (p. 134-155) lists of plants grouped by association and size and alphabetically arranged by vernacular names, with botanical equivalents. (Near junction of Moraballi Creek and Essequibo River, on east side of latter, 6°11' N. Lat.)

Gleason, H. A. Studies on the flora of northern South America XIII. The Tate collection from Mount Roraima and vicinity. *Bul. Torrey Club* 56: 391-408. 1929.

Botanical investigations; descriptions of new species, etc.; list of 50 vascular plants from above 5,000 feet on Mount Roraima additional to N. E. Brown's list (1901).

Graham, E. H. Flora of the Kartabo region, British Guiana. *Annals Carnegie Mus. (Pittsburgh)* 22: 17-292. 2 fig. (maps), pl. 3-18. 1934.

History, physical geography, botanical explorations, plants of Georgetown, geology, climate, plant associations; systematic list of 624 vascular plants, with keys, brief descriptions, citation of exsiccatae, general range; bibliography.

Oliver, Daniel. The botany of the Roraima Expedition of 1884: being notes on the plants observed, by Everhard F. im Thurn; with a list of the species collected, and determinations of those that are new. *Trans. Linn. Soc. Bot. II*, 2: 249-300. 3 fig., pl. 37-56. 1887.

Botanical collections, physiography, general features of flora (by im Thurn); annotated list of vascular and cellular plants, by Oliver, E. Marchal, H. N. Ridley, J. G. Baker, and W. Mitten.

Smith, A. C. Notes on a collection of plants from British Guiana. *Lloydia* 2: 161-218. 1 fig. 1939.

Includes 50 new species and records of 62 others new to British Guiana, collected by the author in southern part of British Guiana drained by Rupununi and upper Essequibo Rivers.

CHILE

See also Argentina (Kurtz); Colombia (Weddell); Patagonia. For Juan Fernandez and Masafuera, San Ambrosio and San Felix Islands, see under Insular Floras.

The following publications have not been available:

Guajardo, Amador. Botánica médica nacional ó sea plantas medicinales de Chile. Santiago, 1892. (Cited from Reiche, K. Grundzüge der pflanzenverbreitung in Chile, p. 32. 1907.)

Gunkel L. Hugo. Enumeración de plantas colectadas en la Isla de Quiriquina. Revista Universitaria (Santiago de Chile) 12: 159-174. 1927. (Cited from Looser, G. Bibliografía botánica chilena. Revista Bibl. Chilena 1927: 230. 1927.)

Maldonado, Ernesto. Tratado de arboricultura forestal y adorno. 2 v. 8°. Santiago de Chile, 1926. (Cited from Porter, C. Reseña histórica y bibliografía razonada de las ciencias naturales en Chile. v. 14, p. 91. 1929.) (Includes descriptions, range, and uses of important wild and cultivated trees; information furnished by Carlos Muñoz.)

Rivera, M. J. Apuntes sobre la vegetación de la costa de Curicó. 50 p. Santiago de Chile, 1903. (Cited from Porter, C. Reseña histórica y bibliografía razonada de las ciencias naturales en Chile. v. 14, p. 130. 1929.)

General

Baeza R., V. M. Los nombres vulgares de las plantas silvestres de Chile y su concordancia con los nombres científicos y observaciones sobre la aplicación técnica y medicinal de algunas especies. 2. ed. aumentada . . . 270 p. 26 cm. Santiago [de Chile], 1930. (1st ed., 1921.)

Bibliography; alphabetical list of vernacular names, with explanation of derivation and botanical equivalents; alphabetical list of botanical names with vernacular equivalents.

Fuentes, Francisco. Algunas plantas venenosas de la flora chilena. Revista Agron. 1: 68-72. 1922.

Running account of about 80 poisonous plants. Not seen; cited from Porter, C. Reseña histórica y bibliografía razonada de las ciencias naturales en Chile. v. 14, p. 60-61. 1929.

Gay, Claude. Historia física y política de Chile . . . Botánica. 8 v. 22.5 cm. and atlas of 103 col. pl. 37.5 cm. Paris, Santiago, 1845-54.

Descriptive flora of vascular and cellular plants, in Spanish except for the Latin diagnoses; Compuestas by J. Remy, Plantas celulares (v. 7-8) by C. Montagne, some other groups contributed by various authors. The caption title, Flora Chilena, is ordinarily used in citations. The plates are divided into two numberings, 83 and 16 with 4 extra.

Latham, R. E. La agricultura precolombiana en Chile y los países vecinos. viii, 336 p. 18.5 cm. [Santiago,] 1936.

Account of Indian tribes at time of the Spanish conquest; running account of wild and cultivated edible plants; method of cultivation, bibliography.

Looser, Gualterio. Bibliografía botánica chilena. Revista Bibl. Chilena 1927: 212-230, 364-390. 1927.

Titles additional to those in Reiche's bibliography (1907), alphabetically arranged by authors. Includes general works referring to Chile, as well as those restricted to that country.

———. Catálogo de plantas vasculares nuevas de Chile. Revista Universitaria (Santiago de Chile) 23: 215-275. 1938.

List of about 500 species of vascular plants not given in the floras of Gay and Reiche and described principally since 1918, with references; bibliography.

Medina, J. T. Voces chilenas de los reinos animal y vegetal que pudieran incluirse en el diccionario de la lengua castellana . . . 149 p. 27 cm. Santiago de Chile, 1917.

Annotated alphabetical list of various vernacular names of plants and animals, with notes on etymology.

Murillo, Adolfo. Plantes médicinales du Chili. xii, 234 p. 28 cm. Paris, 1889. (Exposition universelle de Paris, 1889. Section chilienne.)

Bibliography; annotated systematic list, with vernacular names, references, brief description, medicinal uses; native plants only.

Philippi, Federico. Catalogus plantarum vascularium chilensium adhuc descriptorum. viii, 377 p. 25.5 cm. Santiago de Chile, 1881. (From Anales Univ. Chile, 1881.)

List only, with references to original publications and to Gay's Flora. The number of species is given as 5,358.

Philippi, R. A. Elementos de botánica para el uso de los estudiantes de medicina i farmacia en Chile. ix, 571 p. 24.5 cm. Santiago de Chile, 1869.

Introduction to botany; systematic descriptive account of plant families, with mention of native and principal exotic economic and medicinal species, with vernacular names and uses.

— Sobre las maderas de Chile. Anales Univ. Chile 29: 282-295. 1867.

Annotated systematic list of 83 woody plants, with vernacular names.

Porter, C. E. Reseña histórica y bibliografía razonada de las ciencias naturales en Chile. Tomo 14, Botánica agrícola e industrial. 167 p. 23 cm. Santiago (Chile), 1929.

Annotated list, alphabetically arranged by authors, of publications relating to economic and agricultural botany. Vol. 11 (Criptógamas), 12 (Fanerógamas), 13 (Fitogeografía, etc.), and 15 (Botánica médica) are announced but not yet published.

Reiche, K. F. Flora de Chile. v. 1-6, pt. 1. 24 cm. Santiago de Chile, 1896-1911. (Reprinted, at least in part, from Anales Univ. Chile 1894-1909.)

Descriptive flora, with keys; occasional vernacular names. Incomplete: contains Polypetalae, except Cactaceae; Gamopetalae; lacks Apetalae (except Nyctaginaceae, Amaranthaceae, Phytolaccaceae and Chenopodiaceae), Monocotyledones, Gymnospermae.

— Grundzüge der pflanzenverbreitung in Chile. xiv, 374 p. 55 fig., 33 pl., 2 maps. 26 cm. Leipzig, 1907. (Die vegetation der erde, v. 8.)

Botanical explorations, ecology, and phytogeography. Includes (p. 27-45, 372) bibliography of 550 titles (plus additions) on the Chilean flora. There is a Spanish translation, Geografía botánica de Chile, by Gualterio Looser (2 v., 1934-37 [1938]).

— Los productos vegetales indígenas de Chile. Bol. Soc. Fom. Fabril Santiago (Chile) 32: 481-486, 679-684, 776-784. 1915.

Annotated classified list of useful plants. Essentially the same material in his earlier work of the same title (28 p. 1901; 2. ed. 30 p. 1910).

Turrill, W. B. Botanical exploration in Chile and Argentina. Bul. Misc. Inform. Kew. 1920: 57-66, 223-224. 1920.

Historical sketch, with references to principal publications; account of regions relatively unexplored botanically; bibliography.

Local

Castillo, Luis, and Dey J., J. Jeografía vegetal del Río Valdivia i sus inmediaciones. 2. ed. corr. i aum. 120 p. 64 fig. 24.5 cm. Santiago de Chile, 1908. (1st ed. by Castillo appeared in Anales Agron. Min. Industr. i Obras Púb. (Chile) 2: 418-506. 46 fig. 1907, with title: La jeografía botánica del curso inferior del Río Valdivia . . .)

Plant formations, list of trees and shrubs, with short descriptions and uses; unannotated list of principal cellular and vascular plants; list of vernacular names with botanical equivalents. Second edition varies only slightly from first edition.

Espinosa Bustos, M. R. Enumeración de plantas colectadas en "Los Bronces." Revista Chilena Hist. Nat. 28: 88-97. fig. 11. 1924.

Mostly unannotated list of cellular and vascular plants collected by the author in 1923. (Department of Cachapoal.)

— Plantas de Aysen. Bol. Mus. Nac. Chile 14: 65-82. 1935.

List of vascular plants collected in the Province of Aysen, on the Latcham-Macqueen expedition in 1934.

Grandjot, F. de, and Grandjot, Karl. Der Potrero Grande in der Kordillere von Santiago. Verhandl. Deut. Wiss. Ver. Santiago de Chile n. f., 3: 30-66. 6 fig. (pt. on pl. and incl. map). 1936. (Reprinted.)

Geology, climate, general features of flora; annotated list of plants collected by the authors.

Jaffuel, Félix. Florula de los alrededores de las Termas de Chillán. Revista Chilena Hist. Nat. 42: 76-90. 1939.

General features of flora, etc.; mostly unannotated list of 258 vascular plants, with some vernacular names.

Jaffuel, Félix, and Pirion, Anastasio. Plantas fanerógamas del valle de Marga-Marga. *Revista Chilena Hist. Nat.* 25: 350-405. 1923.

Climate, etc.; annotated list of phanerogams, with vernacular names and uses. Marga-marga is near Quilpué, in the vicinity of Valparaíso.

Johnston, I. M. Papers on the flora of northern Chile. 1. The coastal flora of the departments of Chañaral and Taltal. *Contrib. Gray Herb.* 85: 1-138. pl. 1 (map). 1929.

Physiography, climate, general features of flora, botanical explorations; annotated list of 394 species and varieties of vascular plants. The area covered extends approximately from lat. 24°30' to 26°30' S., west of long. 70°20' W.

——— Papers on the flora of northern Chile. 2. The flora of the nitrate coast. *Contrib. Gray Herb.* 85: 138-163. 1929.—New records for the flora of the nitrate coast. *Revista Chilena Hist. Nat.* 36: 4-8. 1932.

Physiography, climate, general features of vegetation, botanical explorations, bibliography (in text); annotated list of 117 vascular plants. Covers region from 20° to 24° S. Lat.

Looser, Gualterio. Excursión botánica a la Alta Cordillera de Las Condes (Andes cerca de Santiago de Chile). In *Ostenia. Colección de trabajos botánicos dedicados a Don Cornelio Osten* . . . p. 217-246. 2 pl. Montevideo, 1933.

General features of flora; annotated list of cellular and vascular plants collected in 1930.

Meigen, Fritz. Skizze der vegetationsverhältnisse von Santiago in Chile. *Bot. Jahrb. Engler* 17: 199-294. 1893.

General features of flora; list of vascular plants, with localities, containing all species known from the area between Río Maipo and Río Aconcagua, except the coast and the accompanying mountains.

Moore, Eduardo. Contribución a la flórmula de Paredones. *Revista Chilena Hist. Nat.* 30: 384-400. 1926.

Soil, botanical explorations; unannotated list of cellular and vascular plants. (On the coast of the Department of Vichuquén, Province of Curicó.)

Neger, F. W. Informe sobre las observaciones botánicas efectuadas en la cordillera de Villarrica en el verano 1896-97. *Anales Univ. Chile* 103: 903-967. map. 1899.

Ecology, phytogeography; list of 540 hepatics, mosses, and vascular plants, with indication of ecological habitat; annotated list of lichens. (Not far north of the city of Valdivia.)

——— Introduccion a la flora de los alrededores de Concepción. *Anales Univ. Chile* 98: 209-251. 1897.

Climate, plant formations, plant geography; unannotated list of 567 vascular plants.

——— Pflanzengeographisches aus den südlichen Anden und Patagonien. *Bot. Jahrb. Engler* 28: 231-258. 1900.

Plant formations, phytogeography; list of 540 plants (436 vascular) with general range indicated by symbols. (Upper course of Río Tolten and Río Maichin, and region of Lakes Rucachoroi, Huihui, Quillen, and Trommen.)

——— Die vegetationsverhältnisse im nördlichen Araucanien (flussgebiet des Río Biobio). *Bot. Jahrb. Engler* 23: 382-411. 1896.

Ecological; includes (p. 402-411) list of vascular plants of the upper Biobio region.

Philippi, Federico. A visit to the northernmost forest of Chile. *Jour. Bot.* 22: 201-211. 1884.

Running account of the vegetation of Fray Jorge, Province of Coquimbo.—Spanish translation by Francisco Fuentes, with revised list of botanical names, under title: Una visita al bosque más boreal de Chile. *Bol. Mus. Nac. Chile* 13: 96-109. 1930.

——— and Philippi, R. A. Excursion botánica en Valdivia desde Los Cuncos en el departamento de La Unión, a través de la Cordillera de La Costa, hasta la mar . . . *Anales Univ. Chile* 27: 289-324. 1865.

General features of flora; annotated list of vascular plants, with descriptions of new species.

Philippi, R. A. *Catalogus praevious plantarum in itinere ad Tarapaca a Friderico Philippi lectarum.* *Anales Mus. Nac. Chile* 2. secc. Bot. [no. 8.] viii, 96 p. 2 pl. 1891.

Itinerary; list of 417 plants (414 vascular) with localities and occasional vernacular names, collected on journey from Copiapó into Tarapacá in 1884-85. Also published under title: Verzeichniss der von Friedrich Philippi auf der hochebene der provinzen Antofagasta und Tarapacá gesammelten pflanzen.

Philippi, R. A. *Florula atacamensis seu enumeratio plantarum in itinere per desertum atacamense observatarum*. 62 p. 6 pl. 34 cm. Halle, 1860. (With his *Reise durch die wueste Atacama . . . in sommer 1853-54*.)

General features of flora; list of 419 plants (417 vascular) with localities and occasional vernacular names. The "Reise" also issued in Spanish, the *Florula* being included in the "Viage" as p. 175-236.

— Sertum mendocinum. Catálogo de las plantas recojidas cerca de Mendoza . . . *Anales Univ. Chile* 21: 381-407. 1862. —Sertum mendocinum alterum . . . *l. c.* 36: 159-212. 1870.

Lists of 109 and 255 vascular plants, respectively, collected around the city of Mendoza and along route to Chile, with localities and occasional annotations.

Pöhlmann, Robert, and Reiche, Karl. Beiträge zur kenntnis der flora der flussthäler Camerones und Vitor und ihres zwischenlandes (19° s. Br.). *Verhandl. Deut. Wiss. Ver. Santiago de Chile* 4: 263-305. map. 1900.

Itinerary of Dr. Pöhlmann, climate, altitudes, general features of flora; list of vascular plants, with localities.

Reiche, K. F. Cuadro de la flora de la Isla de la Mocha. *In his La Isla de la Mocha*. *Anales Mus. Nac. Chile* 16: 64-90. 1903.

Annotated list of vascular and cellular plants.—For additions, see Schneider, C. O. Anotaciones relativa a la flora de la Isla Mocha. *Comun. Mus. Concepción* 1: 14-18. 1936. (Off the coast, 38°18' S. Lat.)

— Die vegetations-verhältnisse am unterlaufe des Rio Maule (Chile). *Bot. Jahrb. Engler* 21: 1-52. 1895.

Topography, climate, ecology; list of 664 vascular plants; statistics of flora.

Santa Cruz, Alcibiades. Plantas medicinales de la región de Concepción. *Revista Chilena Hist. Nat.* 25: 241-252. 1923.

Annotated list, with vernacular names and uses.

Valenzuela, P. A. Glosario etimológico de nombres de hombres, animales, plantas, ríos y lugares, y de vocablos incorporados en el lenguaje vulgar, aborígenes de Chile, y de algún otro país americano. 2 v. 23 cm. Santiago de Chile, 1918-19.

Includes some vernacular names of plants, with botanical names and derivations.

Vidal, Roberto, and Silva, Rigoberto. Excursión botánica a la cordillera andina. *Anales Univ. Chile* II, 3: 279-316. 1925.

Botanical explorations in the Andes of the Province of Talca; list of 186 vascular plants collected by the authors on the Volcán Descabezado Grande, Cerro Azul and vicinity, Province of Talca, with notes on some species.

COLOMBIA

See also Argentina (Kurtz); Mexico (Bukasov); Panama (Seemann).

The following publications have not been available:

Londoño, J. B. Plantas medicinales de Antioquia. Medellín, [n. d.] (Cited from Pérez Arbeláez, *Plantas medicinales y venenosas de Colombia*, p. [3]. 1937.)

Uribe, J. A. Flora sonsonesa. Sonsón, [n. d.]. (Cited from Pérez Arbeláez, *Plantas medicinales y venenosas de Colombia*, p. [3]. 1937.)

General

Apolinar María, hermano. Vocabulario de terminos vulgares en historia natural colombiana. *Revista Acad. Colomb. Cien. Exact., Fis. y Nat.* 1: 196-203, 349-361. 2 col. pl. 1937-[38]; 2: 256-263, 358-365, 543-556. 6 col. pl. 1938-39; 3: 76-86. 1939.

Annotated alphabetical list of botanical and zoological vernacular names, with scientific equivalents. Reaches (p. 86, 1939) no. 500, Arra-u. A republication, with corrections and additions, of his unfinished work with similar title in *Bol. Soc. Colomb. Cien. Nat.* v. 16-19. 1927-30.

Cortés, Santiago. *Flora de Colombia*. 2. ed. 311 p. 8 fig., 7 col. pl. 24 cm. Bogotá, [1919]. (1st ed., 1897.)

Not a flora. Contains remarks on medicinal and other useful plants arranged by families, and list of Colombian vernacular names with botanical equivalents. The second edition contains sketch of geographical botany of Colombia.

Duque Jaramillo, J. M. *Manual de bosques y de maderas tropicales*. 2 v. (227 p.). 141 fig. 31 cm. Manizales, 1931.

"Tomo II" (i. e., p. 119-227, index) includes a brief descriptive account of the more important native and exotic timbers, with vernacular name and character of wood.

Pérez Arbeláez, Enrique. *Plantas medicinales y venenosas de Colombia*. Estudio botánico, ético, farmacéutico, veterinario y forense. 295 p. 122 fig. 24 cm. Bogotá, 1937.

General considerations; systematic list of medicinal and poisonous plants, excluding the barbascos, with vernacular names; annotated account of the same, with additional vernacular names, uses, etc. Includes the information in his *Plantas medicinales más usadas en Bogotá*.

— *Plantas útiles de Colombia*. v. 1 (172 p.). 116 fig. 24.5 cm. Bogotá, 1935 (1936).

Bibliography of the Colombian flora; systematic list of all useful cellular and vascular plants, with vernacular names and uses; more detailed account of the cellular and vascular plants (except dicotyledons).

Robledo, Emilio. *Lecciones de botánica médica, industrial y agrícola*. 2. ed. notablemente reformada. 586 p. 182 fig. 22.5 cm. Medellín, 1937. (1st ed., [1924].)

A textbook, cited here only for its Spanish vernacular names of native and exotic plants, including the principal useful plants of the world.

Triana, J. J., and Planchon, J. E. *Prodromus florae novo-granatensis*. 2 v. 4 pl. 24.5 cm. Paris, 1862-67.

List, with citation of exsiccatae, vernacular names, and descriptions of new plants and critical notes. Incomplete: [v. 1], 1862, Ranunculaceae-Sapindaceae (De Candolle order); [v. 2], 1863-7, Cryptogams by various authors. Reprinted with changed pagination from *Ann. Sci. Nat.* The treatment of phanerogams was continued after publication of these volumes, the whole series referring to phanerogams being as follows in *Ann. Sci. Nat.* IV, Bot. 17: 5-190. 1862 (Ranunculaceae-Malvaceae); 17: 319-382. 1862 (Sterculiaceae-Ternstroemiaceae, part); 18: 258-381. 1862 (Ternstroemiaceae, part-Sapindaceae); V, 14: 286-325. 1872 (Terebinthaceae, Rutaceae); 15: 352-382. 1872 (Terebinthaceae-Oleaceae); 16: 361-382. 1872 (Coriariaceae-Rhamnaceae); 17: 111-194. 1873 (Geraniaceae-Papayaceae). The series containing the Cryptogams was as follows: IV, 19: 286-382. 1863; 20: 228-300. 1863; V, 1: 95-198. 1864; 2: 193-271. 1864 (Filices, by G. Mettenius); 3: 270-311. 1865 (vascular cryptogams except Filices, by A. Braun); 3: 337-376. 1865; 4: 324-378. 1865; 5: 301-342. 1866; 7: 301-354. 1867.

Local

Cuatrecasas, José. *Resumen de mi actuación en Colombia con motivo del II centenario del nacimiento de Mutis*. *Trab. Mus. Nac. Cien. Nat. y Jard. Bot. Madrid*, Ser. Bot. no. 33. 158 p. 8 fig., 8 pl. 1936.

Includes (p. 23-148) systematic list of cellular and vascular plants collected by the author in the central and eastern Cordilleras, with data.

Curran, H. M. *The lands of Loba, Colombia*. *Trop. Woods, Yale Univ. School Forestry* 19: 11-38. 1929.

General features of region and forests; list of trees collected, with vernacular names and notes on wood, the families arranged alphabetically; alphabetical list of vernacular names; physical properties of woods collected. (In Department of Bolívar, between Magdalena and Cauca Rivers, about 8°15' to 9°15' N. Lat.)

Espina, Ramón, and Giacometto, Juan. *Trees of the Sierra Nevada de Santa Marta*. *Trop. Woods, Yale Univ. School Forestry* 30: 17-37. 1932.

Plant zones, collecting localities; list of trees collected, with vernacular names, the families arranged alphabetically; alphabetical list of vernacular names.

Pérez Arbeláez, Enrique. Frutas de Cundinamarca. Bol. Agr. Colombia Supl. no. 22. 103 p. 63 fig. 1933. (Reprinted from Bol. Agr. Colombia, v. 4, 6, 1931-33.)

Bibliography, systematic list; annotated systematic list, with vernacular names.

— Plantae medicinales más usadas en Bogotá. Bol. Agr. Colombia Supl. no. 32. 112 p. 74 fig. 1934.

Systematic list, with vernacular names, followed by a brief account of the species and their uses.

Record, S. J., and Kuylen, Henry. Santa Marta Valley, Colombia. Trop. Woods, Yale Univ. School Forestry 23: 9-23. 1930.

Topography, general features of flora; annotated list of trees, shrubs, and lianas collected by the authors in January 1930, with vernacular names, the families arranged alphabetically; alphabetical list of vernacular names with botanical equivalents.

Seifriz, William. Die höhenstuden der vegetation in der Sierra Nevada von Santa Marta (Colombia). Bot. Jahrb. Engler 68: 107-112, 113-125. 1 fig. (map), 8 pl. (incl. map). 1936-37.

Includes list of species collected by the author [in 1932] at different altitudes; bibliography.

Toro, R. A. Contribución a la flora de Antioquia. Revista Soc. Colomb. Cien. Nat. 20: 20-32, 57-64. 1931.

List of plants collected by the author, with vernacular names, localities, and collector's numbers; the families arranged alphabetically. Incomplete (Acanthaceae-Mimosaceae); includes cultivated plants.

— Una contribución a nuestro conocimiento de la flora silvestre y cultivada de San Andrés. Revista Soc. Colomb. Cien. Nat. 18: 201-207. 1929.—Una contribución a nuestro conocimiento de la flora de San Andrés y Providencia. l. c. 19: 56-58. 1930.

Unannotated list of 136 vascular plants, with occasional (English) vernacular names. (Two small islands in Caribbean Sea, off coast of Nicaragua; San Andrés (St. Andrews Island) in 12°31' N. Lat., 81°43' W. Long., Providencia (Old Providence Island) in 13°18' N. Lat., 81°18' W. Long.)

Weddell, H. A. Chloris andina. Essai d'une flore de la région alpine des cordillères de l'Amérique du Sud. 2 v. 90 pl. 325 cm. Paris, 1855-57 (-1861). (Expédition dans les parties centrales de l'Amérique du Sud . . . sous la direction du comte F. de Castelnau. 6. ptie.)

Alpine flora of the Andes, from Colombia and Venezuela to Chile, with descriptions and citation of exsiccatae. Incomplete: vol. 1, Compositae; vol. 2, Calyceraceae-Frankeniaceae (43 families).

ECUADOR

See also Argentina (Kurtz); Colombia (Weddell). For Galapagos Islands, see under Insular Floras.

General

Diels, Ludwig. Beiträge zur kenntnis der vegetation und flora von Ecuador. Bibliotheca Bot. no. 116. 190 p. 2 fig., map, tables. 1937.

Ecology; alphabetical list of botanical collectors in Ecuador, with brief biographical sketches, itineraries, location of collections; annotated list of vascular plants collected by the author in 1933; bibliography.—Spanish translation by Reinaldo Espinosa, Contribuciones al conocimiento de la vegetación . . . 364 p. map. Quito, 1938.

Jameson, William. Synopsis plantarum aequatoriensium . . . viribus medicatis et usibus oeconomicis plurimarum adjectis. 3 v. 16.5 cm. Quito, 1865.

Descriptive flora, in Latin, with remarks in Spanish; notes on useful plants at end of each family. Incomplete: v. 1, Ranunculaceae-Columelliaceae; v. 2, Caprifoliaceae-Labiatae; v. 3 (136 p., unfinished), Verbenaceae-Plantago.

Popenoe, Wilson. Economic fruit-bearing plants of Ecuador. Contrib. U. S. Natl. Herb. 24: 101-134. pl. 34-49. 1924.

Systematic list of wild and cultivated fruits, with annotations.

Rimbach, August. The forests of Ecuador. Trop. Woods, Yale Univ. School Forestry 31: 1-9. 1932.

Botanical regions, etc.; list of vernacular names of trees, with botanical equivalents.

Local

Cordero, Luis. Enumeración botánica de las principales plantas, así útiles como nocivas, indígenas ó aclimatadas, que se dan en las provincias del Azuay y de Cañar de la República del Ecuador. 304 p. col. pl. 23.5 cm. Cuenca, 1911.

Useful plants and weeds, systematically arranged, with vernacular names and uses.

Meyer, Hans. In den Hoch-Anden von Ecuador: Chimborazo, Cotopaxi, etc. . . . 14, 551 p. 37 pl., 3 maps. 25.5 cm. Berlin, 1907.

Includes (p. 512-527) tabular list of cellular and vascular plants collected by the author on Chimborazo, Altar, Antisana, Cotopaxi, and Quilindaña, with locality and altitude indicated. The ferns were named by Hieronymus, the phanerogams by J. Bornmüller, Hieronymus, and Pilger, the cellular plants by other botanists.

FRENCH GUIANA

General

Benoist, Raymond. Les bois de la Guyane française. Arch. de Bot. (Caen) Mém. v. 5, no. 1. 291 p. 10 fig., 58 pl. 1931.

General features of forests, wood structure; systematic list, with keys, vernacular names, brief descriptions, wood structure, uses.

La végétation de la Guyane française. Bul. Soc. Bot. France 71: 1169-1177. 1925; 72: 1066-1078. 1926.

Physiography, climate, botanical regions with lists of characteristic species.

Bertin, André, Bettenfeld, Marcel, and Benoist, Raymond. Les bois de la Guyane française et du Brésil. vi, 318 p. illus. (incl. 3 maps), 2 pl. 25 cm. Paris, 1920. (Mission d'études forestières envoyée dans les colonies françaises par les Ministères de la guerre, de l'armement et des colonies. v. 5.)

Mainly of interest to foresters; short descriptions, habit drawings, and vernacular names given.

Devez, G. Les plantes utiles et les bois industriels de la Guyane. vi, 90 p. 25 cm. Paris, 1932.

List of plants, classified by uses; annotated list, alphabetically arranged by vernacular names; index of botanical names; bibliography.

Greshoff, Maurits. De nuttige planten van Fransch Guyana in verband met Suriname beschouwd. Bul. Kolon. Mus. Haarlem 25: 23-45. 1901.

Annotated list of 180 plants, alphabetically arranged by vernacular names, with brief account of uses and Surinam vernacular names.

Heckel, Édouard. Les plantes médicinales et toxiques de la Guyane française (catalogue raisonné et alphabétique). 93 p. 25 cm. Mâcon, 1897. (Also issued as Annales Mus. Colon. Marseille v. 4, p. 67-159. 1898.)

Annotated list, alphabetically arranged by vernacular names; systematic index.

Lalessan, J. L. de. Guyane. In his Les plantes utiles des colonies françaises. p. 125-152, 350-420. Paris, 1886. (Annexe aux notices coloniales publiées à l'occasion de l'Exposition universelle d'Anvers en 1885.)

Annotated systematic lists of woods and of medicinal and other useful plants, with brief descriptions and vernacular names. Contains similar sections on other French colonial possessions.

Sagot, Paul. Catalogue des plantes phanérogames et cryptogames vasculaires de la Guyane française. Annales Sci. Nat. VI, Bot. 10: 361-382. 1880; 11: 134-180. 1881; 12: 177-211. 1881; 13: 283-336. 1882; 15: 303-336. 1883; 20: 181-216. 1885.

Botanical explorations; annotated list of vascular plants (incomplete: Dilleniaceae-Myrtaceae).

Stone, Herbert. Les bois utiles de la Guyane française. Annales Mus. Colon. Marseille v. 24 (s. 3, v. 4), fasc. 2, p. 39-135. 2 pl. 1917; v. 25 (s. 3, v. 5),

fasc. 3. 159 p. pl. 3-7. 1917; v. 26 (s. 3, v. 6), fasc. 1. 68 p. 1918; v. 28 (s. 3, v. 8), fasc. 2. 98 p. 1922; v. 28, suppl. 37 p. 1924.

Descriptions of wood anatomy of each species, with vernacular names.

Local

Benoist, Raymond. Contribution à l'étude de la flore des Guyanes. Plantes recoltées en Guyane française en 1913 et 1914. Bul. Soc. Bot. France 66: 261-266, 317-328, 357-370, 381-398. 1920; 68: 134-144, 311-323, 484-490. 1921-22; 69: 51-57, 104-110. 1922.

Botanical regions; list of phanerogams collected by the author.

Cadet de Gassicourt, C. L. Matière médicale des Galibis et des Guaripons, peuples naturels de la Guiane. Jour. de Pharm. et Chim. II, 2: 310-326. 1816.

Annotated list of 157 plants, classified by uses, with scientific and French vernacular names.

PARAGUAY

See also Argentina (Kurtz; Hassler; Kerr).

General

Bertoni, M. S. Las plantas usuales del Paraguay y países limítrofes . . . I. Introducción, nomenclatura y diccionario de los géneros botánicos latino-guaraní. 78, 2 p. 23.5 cm. Asunción, [1914]. (Descripción física y económica del Paraguay 31.)

Pt. I (all published) treats of the Guaraní language and includes botanical generic names with Guaraní equivalents. Pages 1-47 are a reprint, with some changes, of p. 1-39 of his Plantas usuales del Paraguay, Alto Paraná y Misiones . . . Anales Cient. Paraguayos sér. I, no. 2. 1901.

Chodat, Robert. Plantae hasslerianae soit énumération des plantes récoltées au Paraguay par le Dr. Emile Hassler . . . de 1885-1895. Bul. Herb. Boissier v. 6, app. 1. p. 1-42. 1898; v. 7, app. 1. p. 43-87. 1899.—Plantae hasslerianae . . . de 1885-1895 et de 1898-1900. l. c. II, 1: 395-442. 1901; 2: 297-312, 382-403, 733-747, 811-824. 1902.—Plantae hasslerianae . . . de 1885 à 1902. 2. ptie. l. c. II, 3: 50-66, 229-255, 342-355, 387-421, 538-552, 612-641, 701-732, 780-811, 906-941, 1007-1039, 1097-1127. 1903; 4: 61-92, 169-196, 257-292, 475-489, 548-563, 688-693, 824-839, 879-909, 1051-1068, 1155-1172, 1273-1288. 1904; 5: 65-90, 288-305, 481-506, 603-613, 671-699. 1905; 7: 279-296, 597-624, 665-681, 795-826. 1907. (Reprinted.)

Plant formations (II, 3: 50-54); lists of species collected, with data, arranged by families (not in systematic order), each (in part 2) with a synopsis of the distribution of the species. Enumerates 3,889 species of vascular plants. The second part, beginning in 1903, does not in general include the collections listed in the earlier papers of the series. E. Hassler is joint author of ptie. 2.—See also Hassler, E. Addenda ad Plantas hasslerianas . . . 20 p. 23 cm. Genève, 1917.

— and Vischer, Wilhelm. La végétation du Paraguay. Résultats scientifiques d'une mission botanique suisse au Paraguay. I-XIV. Bul. Soc. Bot. Genève II, 8: 83-160, 186-264. 123 fig., 3 col. pl. 1916-17; 9: 55-107, 165-244. fig. 124-227, col. pl. 4-7. 1917; 11: 211-299. fig. 228-280. 1920; 12: 25-54, 157-218. fig. 281-327. 1921; 17: 127-164. 52 fig. 1926; 18: 246-294. 38 fig. 1926 [1927]. (Reprinted, 509, 49 p.)

Climate and physical geography; chapters on various families of flowering plants, considered mainly in reference to anatomy, ecology, and biology. Vischer was joint author through no. XI, L. Rehfoos for no. XIII-XIV.

Fiebrig-Gertz, Carlos. Guaraní names of Paraguayan plants and animals. Revista Jard. Bot. y Mus. Hist. Nat. Paraguay 2: 99-149. 1923 (1930).

Etymology; systematic list of plants, with Guaraní names; Guaraní names of animals, etc.

Hassler, Emil. Enumeración preliminar de las plantas usuales del Paraguay. Revista Inst. Paraguayo 3: 161-170. 1901; 4: 204-206. 1901.

Unannotated list of vernacular (and botanical) names alphabetically arranged under the families.

Parodi, Domingo. Catálogo alfabético de algunas plantas usuales del Paraguay, de Corrientes y de Misiones. *Revista Farm.* (Buenos Aires) 26: 93-100, 211-216, 234-252, 280-288, 320-324, 351-360, 393-396, 423-432. 1887; 27: 32-36, 65-72, 99-108, 137-144, 177-180, 214-218, 246-256, 273-294. 1888.

Annotated, essentially alphabetical list of useful plants identified at Kew. (Vol. 26 not seen, data from *Darwiniana* 1: 397.)

Notas sobre algunas plantas usuales del Paraguay, de Corrientes y de Misiones. *Anales Soc. Cient. Argentina* 4: 80-86, 124-135, 212-217, 243-251, 300-315. 1877; 5: 33-45. 1877. (Reprinted 61 p. 1877; 2 ed. xxvii, 123 p. 1886 (not seen).)

Annotated, essentially alphabetical list of Guaraní (and Spanish) vernacular names with botanical equivalents; no index to botanical names. The identifications are frequently incorrect; see Hassler's "Enumeración" (1901). A less complete list (Catálogo alfabético Guaraní-Castellano de las plantas indígenas ó naturalizadas en el Paraguay . . .) was published in *Revista farmacéutica de Buenos Aires* 1860-61, and an English version of the latter in *Pharm. Jour.* ser. 2, v. 2-4, 1861-62. According to E. Hassler, *Bul. Herb. Boissier* II, 8: 979-980, 985-986. 1908, Parodi's first edition is a plagiarism from Martius' "Systema materiae medicae vegetabilis brasiliensis" and his "Pflanzen-namen in der Tupi-sprache"; in the 2d edition he copied also from Hieronymus' "Plantae diaphoricae."

Rodríguez, P. M. Plantas medicinales del Paraguay. Redactado en presencia de libros y revistas. Aumentado con observaciones y datos farmacológicos. 141 p. 18.5 cm. Asunción, 1915.

Annotated list, alphabetically arranged by vernacular names, with botanical names, properties, uses, etc.

Rojas, Teodoro. Herbario del Jardín botánico del Paraguay (especies determinadas hasta la fecha). *Revista Jard. Bot. y Mus. Hist. Nat. Paraguay* 1: 145-163. 1921 (1922); 2: 154-192. 1923 (1930).

Systematic list of vascular plants, with collectors' numbers and data: Hymenophyllaceae—Orchidaceae (Engler and Prantl system).

Local

Fiebrig-Gertz, Carlos, and Rojas, Teodoro. Ensayo fitogeográfico sobre el Chaco boreal. *Revista Jard. Bot. y Mus. Hist. Nat. Paraguay* 3: 1-87 (incl. plates). 1933.

Includes running account of vascular plants, with enumeration of species; bibliography.

Morong, Thomas, and Britton, N. L. An enumeration of the plants collected by Dr. Thomas Morong in Paraguay, 1888-1890. *Annals N. Y. Acad. Sci.* 7: 45-280. 1892-93.

Annotated list of vascular plants (and Musci), mainly within a radius of 100 miles of Asunción. Brief descriptions of a considerable proportion of the species are given.

PATAGONIA

See also Argentina (general works); Chile (general works).

The term Patagonia is variously used. It is here taken to include the portion of Argentina south of the Río Negro and its tributary, the Río Limay (including Lake Nahuel-Haupi); that is, the Territories of Río Negro, Chubut, and Santa Cruz; and in Chile, the island of Chiloé and all the area south of it; that is, the Provinces of Chiloé and Magallanes. Tierra del Fuego is combined with Patagonia.

General

Hauman, Lucien. Étude phytogéographique de la Patagonie. *Bul. Soc. Roy. Bot. Belg.* 58: 105-179. 7 fig., 13 pl., map (in text). 1926.

Botanical regions, with lists of species; bibliography.

Macloskie, George, and others. Reports of the Princeton University expeditions to Patagonia, 1896-1899. v. 8, Botany. 3 v. 106 fig., 35 pl. 33.5 cm. Princeton, 1903-14.

Besides sections on the general features of the vegetation and the Hepaticae and Bryophyta, by other authors, the work includes the following by Macloskie: list of vascular cryptogams with general range and brief descriptions; "Flora patagonica," an annotated list of the flowering plants known from Patagonia,

with keys, brief descriptions, local and extralimital range; key to families; botanical exploration, bibliography, topography, general characters and origin of flora. Pt. 3 (Supplement) is a "Revision of Flora patagonica" by Macloskie and Per Dusén and consists of additions, deletions, and critical notes. In this work Patagonia is limited essentially as above defined.

Local

Al'bov, N. M. Contributions à la flore de la Terre de Feu I-II. *Revista Mus. La Plata* 7: 277-308, 353-402. 12 pl. 1896.

General account of explorations, climate, vegetation, etc., of the "Canal de Beagle"; (pt. 2) "Énumération des plantes . . .", a list of 225 vascular plants, with data, based on Al'bov's collection in 1896; the "Cyperaceae and Gramineae" (p. 393-402) by F. Kurtz.

— Essai de flore raisonnée de la Terre de Feu. vi, 85, xxiii p. port. 37 cm. *La Plata*, 1897 (1903). (*Anales del Museo de La Plata* . . . Sección botánica I.)

Mainly phytogeographical; includes unannotated systematic list of 615 species and varieties of vascular plants. The author includes not only the archipelago of Tierra del Fuego but also the greater part of the north coast of the Strait of Magellan, the west slope of the Andes north to about 44° S. Lat., and the islands off this coast. The title page is dated 1897, but the preface (dated 1903) states that this work is posthumous, Al'bov having died in December 1897. Said to have been published in Russian in 1901 (cf. *Darwiniana* 1: 193. 1927).

Autran, Eugène. Florule du Lac Nahuel Haupí et de ses environs. In his *Les parcs nationaux argentins*. Bol. Min. Agr. Rep. Argentina 7: 14-39. 2 pl. 1907. (Reprinted in *Trab. Mus. Farm. Fac. Cien. Méd. Buenos Aires* no. 13.)

List of 376 vascular plants, with localities.

Ball, John. Further contributions to the flora of Patagonia. *Jour. Linn. Soc. Bot.* 27: 471-500. 1891.

Geography, etc.; annotated list of 92 vascular plants collected by W. Andrews in the interior of Patagonia, on a trip from Port Desire to the Río Negro and on an expedition up the valley of the Río Limay to the vicinity of Lake Nahuel-Haupí.

Donat, Arturo. Contribuciones al conocimiento de la flora de la Patagonia oriental: la flora de la región costanera. *Darwiniana* 2: 58-71. 1930.

General features of flora, plant associations; list of spermatophytes collected by the author in 1928, with their plant associations. (Coastal region of Santa Cruz, between the Pampa de Castillo and the Río Deseado.)

Dusén, Per. Die gefässpflanzen der Magellansländer nebst einem beitrage zur flora der ostküste von Patagonien. In *Wissenschaftliche ergebnisse der Schwedischen expedition nach dem Magellansländern*. v. 3, Botanik. p. 77-266. illus., pl. 4-14. Stockholm, 1900. (Reprinted.)

Botanical explorations, bibliography; annotated list of vascular plants collected by the author, with synonymy, references, and localities.

— Zur kenntnis der gefässpflanzen des südlichen Patagoniens. *Öfvers. K. Vetensk.-Akad. Förhandl.* 58: 229-263. 5 fig. 1902.

Annotated list of vascular plants collected in south and west Patagonia by Nordenskiöld, Borge, and the author.

Espinosa Bustos, M. R. Los alerzales de Piuchué. *Bol. Mus. Nac. Chile* 10: 36-93 (incl. fig. 21-58, pl. 2-9). 1917.

General features of flora; unannotated list of cellular and vascular plants; bibliography. (On island of Chiloë.)

— [Eскурsión a la Península de Taitao. Lista de las plantas colectadas.] *Bol. Mus. Nac. Chile* 9: 154-162. 1916 [1917].

Partial list of vascular and cellular plants collected in 1916-17, with vernacular names and some notes on uses. In author's report as chief of the section of botany. Taitao (Taytao) is on south-central coast of Chile, about 46°20' S. Lat.

Franchet, A. R. Phanérogamie. In *Mission scientifique du Cap Horn*, 1882-83. v. 5, Botanique. p. 313-400. 12 pl. (pt. col.). Paris, 1889.

Botanical explorations; partly annotated list of 216 vascular plants collected by the expedition south of the Strait of Magellan, with localities; critical notes on species collected by Commerson in 1767.

Hambleton, Santiago. La vegetación del Canal y Río Baker (Patagonia occidental). *Revista Argentina Agron.* 3: 159-173. 1936.

General features of flora; list of 223 vascular plants, with localities. The localities covered are: Chonos or Guaitecas Islands, San Quintín, Canal Baker and another fjord of the Gulf of Penas, Río Baker, Cordón Atravesado, and the region of the lakes.

Hieronimus, Georg. Sertum patagonicum ó determinaciones y descripciones de plantas fanerógamas y criptógamas vasculares recogidas por el Dr. Carlos Berg en las costas de Patagonia. *Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina)* 3: 327-385. 1881.

Annotated list of 176 phanerogams, with data and some vernacular names, collected in 1874 near the mouth of the Río Negro, at San Blas Bay, and at the mouth of the Río Santa Cruz.

Hosseus, C. C. Apuntes sobre la vegetación del Lago Argentino y del Río Santa Cruz. *Trab. Inst. Bot. y Farm. Fac. Cien. Méd. Buenos Aires* 37: 3-22. 1917.

List of vascular plants collected in 1904-05 by J. Koslowsky, with data, brief descriptions, local and general distribution.

——— La vegetación del Lago Nahuel Huapi y sus montañas. *Trab. Inst. Bot. y Farm. Fac. Cien. Méd. Buenos Aires* no. 33. 102 p. 1915.

Author's itinerary; annotated list of vascular plants collected by him in the territories of Río Negro and Neuquén in 1913, with data, vernacular names, soil, plant formations, general range, and uses.

Reiche, Karl. Informe. In Krüger, P. Memoria jeneral sobre la expedición exploradora del Río Palena, Diciembre 1893-Marzo 1894. *Anales Univ. Chile* 90: 715-747. 1895.

General features of flora, etc.; unannotated list of 197 vascular and cellular plants. (On the mainland, not far south of the island of Chiloé.)

——— La geografía botánica de la región explorada del Río Manso. *Anales Univ. Chile* 101: 436-465. 1898.

Botanical explorations, plant zones; list of 317 plants (276 vascular) with indication of zones.

Rendle, A. B. Mr. Hesketh Prichard's Patagonian plants. *Jour. Bot.* 42: 321-334, 367-378. pl. 465. 1904.

General features of flora; list of Angiospermae collected at western end of Lake Argentina, lat. 50° S., with localities and general range.

Roivainen, H. Contribuciones á la flora de Isla Elisabeth, Río de las Minas y Puerto San Isidor de Prov. de Magallanes, de Puerto Barroso de Prov. de Chiloé y de los alrededores de Termas de Chillan de Prov. de Ñuble, Chile. *Annales Bot. Soc. Zool.-Bot. Fenn. Vanamo* v. 4, no. 8. 22 p. 1933.

Alphabetical list of vascular plants collected by the author in 1928-29, with localities.

Skottsberg, Carl. Die vegetationsverhältnisse längs der Cordillera de los Andes S. von 41° S. Br. Ein beitrage zur kenntnis der vegetation in Chiloé, West-Patagonien, dem andinen Patagonien und Feuerland. (Botanische ergebnisse der Schwedischen expedition nach Patagonien und dem Feuerlande 1907-09. V.) *K. Svenska Vetensk.-Akad. Handl.* v. 56, no. 5. 366 p. 24 fig. (incl. maps), 23 pl. 1916.

Climate, ecology, plant formations, etc.; annotated list of vascular plants, with localities and extralimital range, based chiefly on the collections of this expedition; general features of flora, bibliography.

——— Zur flora des Feuerlandes. Floristische beobachtungen über gefässpflanzen, gesammelt in den jahren 1902 und 1903. In *Wissenschaftliche ergebnisse der Schwedischen südpolarexpedition 1901-1903.* v. 4, pt. 4. 41 p. 2 pl., map. Stockholm, 1916.

Annotated list of vascular plants collected by the author.

——— Zur gefässpflanzenflora Westpatagoniens. *Göteborgs K. Vetensk.-o. Vitterh.-Samh. Handl.* IV, v. 28, [no. 3]. 29 p. 7 fig. 1924.

Annotated list of vascular plants collected on Nordenskjöld's 1920-21 expedition to Kelly-Fjord and the San Tadeo Glacier; general features of the flora.

Spegazzini, Carlos. Nova addenda ad floram patagonicam. *Anales Soc. Cient. Argentina* 47: 161-177, 224-239, 274-290. 1899; 48: 44-59, 172-190, 239-

242, 329-332. 1899; 53: 13-34, 66-80, 136-144, 166-185, 242-251, 275-292. 1902.
 Anales Mus. Nac. Buenos Aires 7 (II, 4): 135-308. 1902.

Additions to the flora of Patagonia, new species, and critical notes.

Spegazzini, Carlos. Plantae Patagoniae australis. Revista Fac. Agron. y Vet. La Plata 3: 485-589. 1897.

List of 441 vascular plants from the area between the Strait of Magellan and about 45° S. Lat., with localities and occasional annotations.

Primitiae florum chubutensis. Revista Fac. Agron. y Vet. La Plata 3: 591-633. 1897.

Plant zones; list of 229 vascular plants, with localities, from the Territory of Chubut.—See also Hosseus, C. C. Algunas plantas de Cabo Raso (Chubut). Physis 1: 534-540. 3 fig. 1915.

Wildeman, Émile de. Les phanérogames des terres Magellaniques. 222 p. 23 pl. 36 cm. Anvers, 1905. (Commis on de la Belgique. Expédition antarctique belge. Rapports scientifiques . . . Botanique.)

List of species collected on the voyage of the *Belgica*; systematic enumeration of the phanerogams of the Austro-Antarctic American flora, with references and local distribution; statistical table of the same, showing distribution by islands, etc. Covers area from Wellington Island to Staten Island, Tierra del Fuego, and adjacent mainland; lists 539 species and varieties from the islands (in addition to those confined to the mainland).

PERU

See also Argentina (Kurtz); Colombia (Weddell).

General

Herrera, F. L. Catálogo alfabético de los nombres vulgares y científicos de plantas que existen en el Perú. vii, 363 p. 17.5 cm. Lima, 1939.

Consists of two sections: Exploraciones botánicas en el Perú (reprinted from Revista Mus. Nac. Lima 6: 296-358. 1937), an annotated list of collectors, with account of regions visited and location of collections; Nombres vulgares con sus respectivas sinonimias científicas, an alphabetical list of vernacular names with botanical equivalents; also brief bibliography.

Macbride, J. F. Flora of Peru pt. I-II, VI. Pub. Field Mus. Nat. Hist. Bot. Ser. v. 13. map. 1936-38. (Pt. I. no. [1], 3; pt. II, no. 1-3; pt. VI, no. 1-2. Pub. Field Mus. 351, 357, 363, 367, 369, 393, 428.)

Recent botanical explorations, phytogeography (by A. Weberbauer); annotated list of spermatophytes, with keys, brief descriptions, citation of exsiccatae with localities, occasional vernacular names. Treatment of several families contributed by other authors, especially by P. C. Standley.

Sievers, Wilhelm. Die Nutzpflanzen, ihr anbau und dessen geographische verbreitung. In his Reise in Peru und Ecuador . . . 1909. Wiss. Veröffentl. Gesell. Erdk. Leipzig 8: 302-316. map 4-5. 1914.

Running account of principal edible plants of Peru, wild and cultivated.

Weberbauer, August. Die pflanzenwelt der peruanischen Anden in ihren grundzügen dargestellt. xii, 355 p. 63 fig., 40 pl., 2 maps. 25.5 cm. Leipzig, 1911. (Die vegetation der erde, v. 12.)

Botanical explorations, bibliography, physical geography, geology, climate, botanical regions, plant formations, cultivated plants, phytogeography.

Local

Ball, John. Contributions to the flora of the Peruvian Andes, with remarks on the history and origin of the Andean flora. Jour. Linn. Soc. Bot. 22: 1-64. 1885.

General features of flora, tables of zonal distribution, phytogeography; list of vascular plants collected by the author in upper valley of Rimac River in the Peruvian Andes in 1882, with frequent annotations.

Bruns, Ferdinand. Beiträge zur kenntnis der vegetation des peruanischen küstengebietes. Mitt. Inst. Allg. Bot. Hamburg 8: 1-85. 11 fig. 1929.

Botanical investigations, physiography, geology, climate, statistics of flora, plant formations, phytogeography; list of 399 vascular plants (357 native) known

from the region, with references, localities, and collectors' names, and general range; bibliography.

Escomel, Edmundo. *Flora y fauna de Arequipa*. 103 p. 24.5 cm. Lima, 1936. Includes (p. 3-29) notes on useful plants, wild and cultivated, systematically arranged, with vernacular names; (p. 73-88) alphabetical lists of botanical and vernacular names mentioned in the previous section, with equivalents and page references. Publication of the Dirección general de fomento.

García y Merino, Manuel. *Los nombres vulgares de nuestras plantas*. Bol. Soc. Geog. Lima 5: 294-301. 1895.

Explanation of some of the most common root words in Spanish vernacular names used in Peru, with examples.

Harms, Hermann. Uebersicht der bisher in altperuanischen gräbern gefundenen pflanzenreste. In *Festschrift Eduard Seler . . . herausgegeben von W. Lehmann*. p. 157-186. pl. 2. Stuttgart, 1922.

Annotated bibliography; annotated systematic list of species, including those previously reported.

Herrera, F. L. *Contribución a la flora del departamento del Cuzco*. 2. ed. primera parte. 241 p. 21 cm. Cuzco, 1921. (First ed., 1919, in *Revista Universitaria Cuzco*, v. 8, no. 28.)

List of 656 native and cultivated plants, with remarks and often descriptions; bibliography.

— Filología Quechua. Etimologías de algunos nombres vernaculares de plantas indígenas en el departamento del Cuzco. *Revista Mus. Nac. Lima* 8: 81-98. 1939.

Includes alphabetical list of Quechua vernacular names with botanical equivalents.

— *Plantarum cuzcorum herrerarianum*. Estudios sobre la flora del departamento del Cuzco. 2 v. plates. 21 cm. Lima, 1930-33.—[I]-III. suplemento. *Revista Universitaria Cuzco* 2, epoca, 14 (1): 149-160. 1930; 23 (1): 254-262. 1931; 23 (2): 111-147. 1934.

Botanical explorations, bibliography; list of 1,023 cellular and vascular plants (including supplements) collected by the author, with vernacular names (indexed), general range, and data for specimens collected; statistics. Replaces his *Chloris Cuzcoensis* (1926). The second volume includes species 733-1017 of the flora, as well as notes on various useful plants, some local lists, a list of vernacular names, etc. The sketch of botanical explorations in vol. 1 is reproduced from *Revista Universitaria Cuzco* 2, epoca, 13: 205-223. 1929.—See also his *La flora en el departamento del Cuzco*. *Revista Mus. Nac. Lima* 4: 119-133. 1935. (Adds 77 species.)

— Plantas que curan y plantas que matan de la flora del Cuzco. (Estudio folklórico.) *Revista Universitaria Cuzco* 27 (75): 4-76. 1938.

List of vernacular names of medicinal and poisonous plants, classified by uses; annotated list, alphabetically arranged by vernacular names, with habit, properties, and citation of exsiccatae.

— Sinonimia científica y vulgar de algunas plantas indígenas en el departamento del Cuzco. *Revista Universitaria Cuzco* 13: 365-395. 1929.

Reciprocal alphabetical lists of botanical and vernacular names.

— La vegetación de la Quebrada del Urubamba. *Revista Chilena Hist. Nat.* 36: 122-135. illus. 1932.

Includes lists of 170 species, by localities and formations. (Department of Cuzco.)

Huber, Jacques. Plantas vasculares colligidas e observadas no baixo Ucayali e no Pampa del Sacramento, nos mezes de outubro a dezembro de 1898. (Materiaes para a flora amazonica VI.) Bol. Mus. Goeldi Hist. Nat. e Ethnogr. 4: 510-619. 7 fig. 1906.

Author's itinerary; list of vascular plants, with vernacular names, data, range, and frequent annotations. (Northeastern Peru, in the Amazon drainage.)

Johnston, I. M. The vascular flora of the guano islands of Peru. *Contrib. Gray Herb.* 95: 26-35. pl. 6-7. 1931.

Geology, climate, etc.; list of vascular plants collected by Dr. R. C. Murphy, 1919-20. Of the several scores of islands apparently only 4 (Lobos de Tierra, San Lorenzo, San Gallan, and Viejas, between 6°26' and 14°14' S. Lat.) support any vascular plants.

Málaga Santolalla, Fermín. Flora. In his Monografía del departamento de Cajamarca. Bol. Soc. Geog. Lima 20: 94-107. 1906.

Briefly annotated list of useful and poisonous plants.

Williams, Llewelyn. Woods of northeastern Peru. Pub. Field Mus. Nat. Hist. 377, Bot. Ser. v. 15. 587 p. 18 fig., 2 maps. 1936.

Explorations of author, plant formations, climate, forest products, etc.; systematic list, with brief descriptions of each tree and its wood, and citation of author's collections; tables of anatomical characters; alphabetical list of vernacular names, with botanical equivalents; bibliography. (Departments of Loreto, Amazonas, and San Martín.)

Yacovleff, Eugenio, and Herrera, F. L. El mundo vegetal de los antiguos peruanos. Revista Mus. Nac. Lima 3: 241-322. 39 fig. 1935; 4: 29-102. fig. 48-65. 1935. (Reprinted, 102 p. 1935.)

Extensively annotated list of useful plants, the species arranged chronologically according to their first mention in the older writers (beginning with Pizarro, 1533); systematic list, index of botanical names; bibliography.

SURINAM (DUTCH GUIANA)

See also Dutch East Indies (Sirks); French Guiana (Greshoff).

General

Hering, C. J. Overzicht van de cultuurgewassen en boschproducten in verband met nijverheid en handel in de kolonie Suriname, Nederlandsch Guiana, Z. A. xiii, 296, xii p. 24.5 cm. Paramaribo, 1902-03.

Discussion of economic plants, both wild and cultivated, classified by uses; vernacular names. The palms are dealt with in a separate paper: Nuttige palmen der kolonie Suriname. 42, iv p. Paramaribo, 1903.

Pfeiffer, J. P. De houtsoorten van Suriname. 2 v. illus., plates. 22.5 cm. Amsterdam, 1926-27. (K. Ver. Koloniaal instituut te Amsterdam. Mededeeling no. 22. Afd. Handelsmuseum no. 6.)

Part 1, systematic list of trees, describing wood anatomy, with vernacular names and uses; bibliography; part 2, study of technical properties of some of the woods.

Pulle, A. A. An enumeration of the vascular plants known from Surinam. 8, 555 p. 17 pl., map. 24.5 cm. Leiden, 1906.

List with synonymy, citation of exsiccatae, vernacular names, and statement of general range; botanical explorations, statistics of distribution (2,101 species, of which 293 are endemic), phytogeographical remarks; bibliography.

——, ed. Flora of Surinam (Dutch Guyana). v. 1-4, pt. 2. 22.5 cm. Amsterdam, 1932-39. (K. Ver. Koloniaal instituut te Amsterdam. Mededeeling no. 30. Afd. Handelsmuseum no. 11.)

Principal botanical collections; descriptive flora of phanerogams, with general and local distribution, citation of exsiccatae, synonymy, vernacular names. The families are not in systematic order. Not yet completed.—See also Lanjouw, J. Additions to Pulle's Flora of Surinam I. Plants collected by J. Lanjouw in 1933. Recueil Trav. Bot. Néerl. 32: 215-261. 4 fig. (incl. maps), pl. 2. 1935.

—— Zakflora voor Suriname. Deel 1. 2. uitgave. Bul. Kolon. Mus. Haarlem no. 47. 194 p. 1911.

Keys to the families and genera of wild and cultivated plants; index of vernacular names.

Sack, Johannes. Lijst van eenige planten, die in Suriname als geneeskrachtig worden beschouwd met opgave van de ziekten tegen welke zij worden aangewend. Bul. Inspect. Landb. West-Indië 13: 1-23. 1908.

Systematically arranged annotated list of medicinal plants, wild and cultivated, with Dutch and "neger-engelsche" names. French résumé by É. de Wildeman in Bul. Sci. Pharm. 16: 160-164, 204-209. 1909, under title, Plantes médicinales des Guyanes.

Westeröien van Meeteren, [J. M.] Surinaamsche planten en cultuurgewassen, boomen en houtsoorten. Korte opsomming der tot heden bekende en gebruikt wordende soorten. 52 p. 26 cm. [Haarlem, 1883.]

Briefly annotated alphabetical list of vernacular and scientific names of cultivated plants, native and introduced, also woody plants.

URUGUAY

See also Argentina (Kurtz).

General

Arechavaleta, José. Flora uruguayana. Enumeración y descripción breve de las plantas conocidas hasta hoy y de algunas nuevas que nacen espontáneamente y viven en la República Oriental del Uruguay. vol. 1-4, pt. 3. Anales Mus. Nac. Montevideo v. 3. xxi, 492 p. 1898-1901; v. 5. xlviii, 375 p. illus., pl. 1903-05; v. 6. 502 p. illus., plates. 1906-08; v. 7. 224 p. illus., plates. 1909-11.

Descriptive flora, with occasional vernacular names and uses. Incomplete; reaches *Cuscuta* (Bentham and Hooker system). Vol. 2, p. xxxvi-xliii, contains biographical sketches of botanists who have collected in the region.

Berro, Mariano B. La vegetación uruguayana. Plantas que se hacen distinguir por alguna propiedad útil ó perjudicial. Anales Mus. Nac. Montevideo 2: 91-196. 1899.

Bibliography; annotated systematic list of useful and harmful plants, with vernacular names (not indexed).

González, Matias, Coppetti, Víctor, and Lombardo, Atilio. Plantae diaphoricae. Florae uruguayensis. Anales Univ. Uruguay 37: 3-154 (incl. plates). 1928; 1936 (137): 119-377 (incl. plates). 1936.

Annotated descriptive list of medicinal plants, each illustrated by a plate, with vernacular names and uses.

Herter, Wilhelm. Enumeratio plantarum vascularium sponte nascentium Republica orientali uruguayensi adjectis plantis adventiciis, plantis cultis principalibus, nominibus vernaculis, distributione in Republica, numeris collectionum Gibert et Herter. 191 p. plates (4 col.), map. 19 cm. Montevideo, 1930. (Estudios botánicos en la región uruguayana IV. Florula uruguayensis II.)—Additamenta ad floram uruguayensem. [I]-III. Revista Sudamer. Bot. 2: 111-128. 2 fig., col. pl. i. 1935; 3: 146-178. col. pl. iv. 1936; 4: 179-232. col. pl. vi. 1937.

Botanical explorations; list of vascular plants known from Uruguay, with vernacular names and range by Provinces; 2,998 species including additions.—See also his Plantae uruguayenses novae vel criticae I. Revista Sudamer. Bot. 5: 13-36. 7 fig. (incl. map). 1937.—Also his Flora ilustrada del Uruguay. 1. lfg. Beih. Repert. Spec. Nov. Fedde 118, no. 1. 16 pl. 1939.

Osten, Cornelius, and Herter, Wilhelm. Plantae uruguayenses. Anales Mus. Nac. Montevideo II, 1: 325-404. pl. 25-29. 1925; 2: 103-127, 301-319. 1925-27; 3: 43-56. 1929. (Reprinted, at least in part.)

Partly annotated list of vascular plants, with synonymy, references, general range, vernacular names, exsiccatae with their localities, index to exsiccatae, keys to genera and species, bibliographies. Intended as a critical revision of the flora of Uruguay; reaches *Arundinella* (Engler and Prantl system).

Paccard, Ernesto. Lista de algunas plantas medicinales de las Repúblicas Oriental y Argentina. 77 p. col. plates. 22.5 cm. Montevideo, 1905.

Briefly annotated list, arranged alphabetically by vernacular names, with botanical equivalents; list classified by medicinal uses. No index of botanical names.

Sobron, F. C. y. Plantas medicinales de la República del Uruguay y noticias sobre los indígenas. 44 p. 26.5 cm. Madrid, 1874.

Annotated list of native and cultivated species, arranged alphabetically by vernacular names; no index.

Local

Gibert, Ernest. Enumeratio plantarum sponte nascentium agro montevidensi cum synonymis selectis. 146 p. 21 cm. Montevideo, 1873.

Unannotated systematic list, with occasional vernacular names.

Herter, Wilhelm. Apuntes sobre la flora del Palmar de Castillos, Departamento de Rocha, República Oriental del Uruguay. In *Ostenia*. Colección de trabajos botánicos dedicados a Don Cornelio Osten . . . p. 193-204. Montevideo, 1933.

General features of region; unannotated list of cellular and vascular plants.

Herter, Wilhelm. Zur kenntnis der flora von Osturuguay. Beih. Bot. Centralbl. Abt. B, 59: 245-286. 14 fig. 1939.
Unannotated list of about 1,000 cellular and vascular plants of the departments of Rocha and Treinta y Tres; general features of flora, bibliography.

VENEZUELA

See also Argentina (Kurtz); Colombia (Weddell); West Indies (Grisebach); Lesser Antilles (Boldingh [for Curaçao, Aruba, and Bonaire]).

General

Ernst, Adolf. La exposicion nacional de Venezuela en 1883 . . . 704 p. plan. pl. 32 cm. Caracas, 1884.

Includes (p. 134-286, 361-518) chapters on woods and other useful plants, with annotated lists of species, and including cultivated plants.

Knuth, Reinhard. Initia florae venezuelensis. Beih. Repert. Spec. Nov. Fedde v. 43. 768 p. 1926-28.

List of vascular plants known from Venezuela, with synonymy, vernacular names, and citation of exsiccatae; annotated list of collectors, with brief itineraries and partial bibliography.—For additions, see Suessenguth, K. Für Venezuela neue pflanzen der sammlung Vogl. Revista Sudamer. Bot. 1: 81-86. 1934.—Also Suessenguth, K., and Beyerle, R. Ergänzungen zu den "Initia florae venezuelensis" von R. Knuth. Bot. Arch. 39: 373-381. 1939.

Pittier, H. F. El estado actual de nuestros conocimientos acerca de la flora de Venezuela. 20 p. 23 cm. Caracas, 1931.

Includes briefly annotated list of collectors; account of the author's own collecting; statistics of flora by families.

— El estudio de los productos forestales en Venezuela. Bol. Cient. y Técn. Mus. Com. Venezuela 1: 3-44. 1927.

Includes systematic list of 603 woody plants, with vernacular names (indexed).—See also Williams, Llewelyn. Maderas económicas de Venezuela. Bol. Técn. Min. Agr. y Cría (Venezuela) no. 2. 97 p. 24 fig. 1939.

— Flora venezolana: plantas medicinales. Mem. Cong. Venezol. Med. 4th, [1927] 2: 230-241. 1925.

"An attempt at a classification of the medicinal plants of Venezuela according to their real or supposed virtues"; vernacular names given. (Not seen; notice by author in Bot. Abstr. 15: 793. 1926.)

— Genera plantarum venezuelensium. Clave analítica de los géneros de plantas hasta hoy conocidos en Venezuela. 354 p. 23.5 cm. Caracas, 1939.

Key to the genera of vascular plants.

— Manual de las plantas usuales de Venezuela. xvi, 458 p. 42 pl. (incl. 6 port.) 23.5 cm. Caracas, 1926. — Suplemento . . . viii, 129 p. 24.5 cm. Caracas, 1939.

Alphabetical list of vernacular names of the commoner and the economic plants, with uses and cross index by scientific names; botanical investigations, plant formations, principal economic plants classified by uses; bibliography. The illustrations are mostly photographs of trees or habitats. The supplement includes a list of woody plants, with vernacular names, and gives the number of vascular and cellular plants known from Venezuela in 1931 as 8,783.

Local

De Verteuil, L. A. A. G. Native medicinal plants. Agr. Record Trinidad 1: 17-24. 1890.

Annotated list of 65 species, with vernacular names, classified by uses. (Trinidad.)

Ernst, Adolf. Florula chelonasiaca; or, a list of plants collected in January, 1874, in the island Tortuga, Venezuela. Jour. Bot. 14: 176-179. 1876.

Physiography, etc.; annotated list of 69 vascular and cellular plants, with vernacular names. Tortuga is about 50 miles north of Venezuela and 52 miles northwest of Margarita Island.

— Plants used medicinally at Caracas, Venezuela, South America, and their vernacular names. Jour. Bot. 3: 143-150, 277-284, 306-322. 1865.

Annotated list, arranged alphabetically by vernacular names, with botanical equivalents and uses.

Ernst, Adolf. *Sertulum naiguatense*; notes on a small collection of alpine plants from the summit of Naiguatá, in the mountains of Caracas. *Jour. Bot.* 10: 261-264. 1872.

List of 32 cellular and vascular plants collected on April 23, 1872, by James M. Spence.—See also his *Enumeración de las plantas más notables que fueron observadas en la excursión a Naiguatá*. *Repertorio Caraqueño* 1: 141-146. 1879 (abstract in *Bot. Centralbl.* 1880(3): 1179), for additional species collected by himself on Aug. 25, 1879.

Verzeichniss der auf der venezuelanischen Inselgruppe Los Roques im September 1871 beobachteten Pflanzen. *Bot. Zeit.* 30: 539-541. 1872.

Geology, etc.; annotated list of 26 vascular and cellular plants, with vernacular names. The island group Los Roques lies about 20 miles north of Caracas.

Freeman, W. G., and Williams, R. O. The useful and ornamental plants of Trinidad and Tobago. 2d ed., rev. *Mem. Dept. Agr. Trinidad and Tobago* no. 4. 192 p. 1928. (1st ed., 1927.)

Alphabetical list of vernacular and scientific names, with cross-references; brief descriptions, uses; lists of genera classified by uses; ornamental plants; systematic list of genera included.

Gleason, H. A. Botanical results of the Tyler-Duida expedition. *Bul. Torrey Club* 58: 277-506. pl. 17-45, map. 1931. (Reprinted with addition of index.)

Itinerary (by G. H. H. Tate), geology (by C. B. Hitchcock), plant associations (by Tate); list of vascular plants and Musci, with data and general range, by Gleason and numerous collaborators; table of temperatures and weather. Refers primarily to Mount Duida, in southern Venezuela near the village of Esmeralda. Mount Duida previously had been entirely unknown botanically; 14 genera and nearly 200 species were new.

— and Killip, E. P. The flora of Mount Auyan-tepui, Venezuela. *Brittonia* 3: 141-204. 5 fig. 1939.

Topography, geology, general features of flora; annotated list of 244 vascular plants (including 41 new species), collected [in 1937-38] by an expedition from the American Museum of Natural History headed by G. H. H. Tate. Mount Auyan-tepui, the flora of which was previously unknown, is a part of the Roraima-Duida mountain complex, lying about 150 miles northwest of Roraima and 250 miles northeast of Duida.

Jahn, Alfredo. Los páramos venezolanos. *Sus aspectos físicos y su vegetación*. *Bol. Soc. Venezol. Cien. Nat.* 1: 93-127. 1931.

General features of vegetation, list of paramos with altitudes, area, etc., climate; partial list of plants found at 3,500 to 4,000 meters altitude.

Johnston, J. R. Flora of the islands of Margarita and Coche, Venezuela. *Proc. Boston Soc. Nat. Hist.* 34: 163-312. pl. 23-30 (incl. 2 maps). 1909. (*Contrib. Gray Herb.* 37.)

Botanical explorations, physiography, list of vascular plants of Margarita, with synonymy, citation of exsiccatae, and general range; annotated list of useful plants, classified by uses; general features of Coche, with list of vascular plants; phytogeography, bibliography.

Marshall, R. C. Trees of Trinidad and Tobago. 101, viii p. 20 pl. 21.5 cm. Trinidad, 1934.

List of wild and cultivated trees, with vernacular names; brief descriptive flora of the native species.

Sandwith, N. Y. Contributions to the flora of tropical America. XXXVII. Notes on the flora of Tobago. *Bul. Misc. Inform. Kew* 1938: 353-384. 1938.

General features of flora; annotated partial list of vascular plants collected by the author in 1937, including many additions to the published parts of Williams and Cheesman, *Flora of Trinidad and Tobago*, and new records for the island in other families.

Williams, R. O. Notes on the plants of Patos. *Bul. Misc. Inform. Kew* 1924: 273-280. pl. 1-4. 1924.

Brief sketch of vegetation, with especial reference to cacti, and list of 27 species of flowering plants. Patos is a small island 24 miles from Port-of-Spain and 2¼ miles from the coast of Venezuela.

— and Cheesman, E. E. *Flora of Trinidad and Tobago*. v. 1, pt. 1-6; v. 2, pt. 1. 21.5 cm. Trinidad, 1928-34.

Descriptive flora with keys, brief synonymy, general range. Not yet completed. E. E. Cheesman is coauthor of v. 2, pt. 1, and of part of v. 1, pt. 2.

ABBREVIATIONS OF PERIODICALS CITED

- Abhandl. Gebiet Auslandsk. Hamburg. Univ. Hamburgische universität.
 Abhandlungen aus dem gebiet der auslandskunde.
 Abhandl. K. Akad. Wiss. Berlin. Abhandlungen der Königlichen akademie
 der wissenschaften zu Berlin.
 Abhandl. K. Gesell. Wiss. Göttingen. Abhandlungen der K. gesellschaften
 der wissenschaften zu Göttingen.
 Abhandl. Naturw. Ver. Bremen. Abhandlungen hrsg. vom Naturwissen-
 schaftlicher verein zu Bremen.
 Acta Bot. Fenn. Societas pro fauna et flora fennica. Acta botanica fennica.
 Acta Horti Gothoburg. Acta horti gothoburgensis. (Meddelanden från
 Göteborgs botaniska trädgård.)
 Acta Soc. Scient. Fenn. Acta Societatis scientiarum fennicae.
 Actes Cong. Internatl. Bot. Paris. Actes du 1er Congrès international de
 botanique tenu à Paris . . . 1900.
 Actes Soc. Linn. Bordeaux. Actes de la Société linnéenne de Bordeaux.
 Agr. Cir. Dept. Agr. Fiji. Agricultural circular issued by the Department of
 agriculture, Fiji.
 Agr. Gaz. N. S. Wales. Agricultural gazette of New South Wales.
 Agr. Notes Agr. Ext. Serv. Univ. Hawaii. University of Hawaii. Agricul-
 tural extension service. Agricultural notes.
 Agr. Prat. Pays Chauds. L'agriculture pratique des pays chauds.
 Agr. Rec. Trinidad. The agricultural record. Official organ of the Central
 agricultural board of Trinidad.
 Agricolt. Colon. Agricoltura coloniale (Istituto agricolo coloniale italiano,
 Firenze).
 Alabama Polytech. Inst. Ext. Serv. Cir. Alabama polytechnic institute.
 Extension service. Circular.
 Almanaque Min. Agr. Rep. Argentina. República argentina. Almanaque
 del Ministerio de agricultura de la nación.
 Amer. Anthropol. American anthropologist.
 Amer. Bot. American botanist.
 Amer. Fern Jour. American fern journal.
 Amer. Jour. Bot. American journal of botany.
 Amer. Jour. Forestry. American journal of forestry.
 Amer. Jour. Pharm. American journal of pharmacy.
 Amer. Jour. Sci. American journal of science.
 Amer. Midl. Nat. American midland naturalist.
 Amer. Nat. American naturalist.
 Ames Forester. The Ames forester.
 Anales Agron. Min. Industr. i Obras Páb. (Chile). Ministerio de industria i
 obras públicas. Anales agronómicos.
 Anales Cient. Paraguayos. Anales científicos paraguayos.
 Anales Circulo Méd. Argentino. Anales del Circulo médico argentino.
 Anales Inst. Biol. México. Anales del Instituto de biología de la Universidad
 nacional de México.
 Anales Inst. Fís.-Geog. Costa Rica. Anales del Instituto físico-geográfico de
 Costa Rica.
 Anales Mus. Nac. Chile. Anales del Museo nacional de Chile.
 Anales Mus. Nac. Costa Rica. Anales del Museo nacional. República de
 Costa Rica. (Later included in Instituto físico-geográfico de Costa Rica.)
 Anales Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires. Anales del Museo
 nacional de historia natural Bernardino Rivadavia, Buenos Aires.
 Anales Mus. Nac. Hist. Nat. Buenos Aires. Anales del Museo nacional de
 historia natural. (Later changed to preceding title.)
 Anales Mus. Nac. México. Anales del Museo nacional de México.
 Anales Mus. Nac. Montevideo. Anales del Museo nacional de Montevideo.
 Anales R. Acad. Cien. Habana. Anales de la Real academia de ciencias médicas,
 físicas y naturales de la Habana.

- Anales Soc. Cient. Argentina. Anales de la Sociedad científica argentina.
 Anales Soc. Españ. Hist. Nat. Anales de la Sociedad española de historia natural.
 Anales Soc. Rural Argentina. Anales de la Sociedad rural argentina.
 Anales Univ. Chile. Anales de la Universidad de Chile.
 Anales Univ. Uruguay. República oriental del Uruguay. Anales de la Universidad.
 Ann. Rpt. Agr. Expt. Sta. North Dakota. Annual report of the North Dakota agricultural experiment station.
 Ann. Rpt. Bot. Off. Brit. Columbia. Annual report of the Botanical office of the province of British Columbia.
 Ann. Rpt. Bur. Amer. Ethnol. Annual report of the Bureau of American ethnology.
 Ann. Rpt. Colon. Herb. (Natal). Colonial herbarium. Annual report (sometimes Report). *See also* Rpt. Natal Bot. Gard. (Rpt. Colon. Herb.).
 Ann. Rpt. Columbus Hort. Soc. Annual report of the Columbus horticultural society . . . including . . . quarterly journal.
 Ann. Rpt. Commr. Parks and Boulevards, Detroit. Annual report of the Commissioner of parks and boulevards, city of Detroit.
 Ann. Rpt. Commrs. State Reserv. Niagara. Annual report of the Commissioners of the State reservation at Niagara.
 Ann. Rpt. Florida State Geol. Survey. Florida state geological survey. Annual report.
 Ann. Rpt. Geol. and Nat. Hist. Survey Canada; Ann. Rpt. Geol. Survey Canada. Geological and natural history survey (*later* Geological survey) of Canada. Annual report (*earlier* Report of progress, q. v.)
 Ann. Rpt. Geol. and Nat. Hist. Survey Minn. The geological and natural history survey of Minnesota. Annual report.
 Ann. Rpt. Geol. Survey Arkansas. Annual report of the Geological survey of Arkansas.
 Ann. Rpt. Geol. Survey Indiana; Ann. Rpt. Indiana Dept. Geol. and Nat. Hist. (or Res.). Annual report of the Geological survey of Indiana. *Later* Indiana. Department of geology and natural history (*later* natural resources). Annual report.
 Ann. Rpt. Iowa Geol. Survey. Iowa geological survey. Annual report.
 Ann. Rpt. Louisiana State Univ. Annual report of . . . Louisiana state university.
 Ann. Rpt. Maine Bd. Agr. Annual report of the secretary of the Maine board of agriculture.
 Ann. Rpt. Mich. Acad. Sci. (See Rpt. Mich. Acad. Sci.)
 Ann. Rpt. Miss. State Bd. Health. Annual report of the Mississippi state board of health.
 Ann. Rpt. Missouri Bot. Gard. Annual report of the Missouri botanical garden.
 Ann. Rpt. Nebraska State Bd. Agr. Annual report of the Nebraska state board of agriculture.
 Ann. Rpt. New Jersey State Mus. Annual report of the New Jersey state museum.
 Ann. Rpt. Ohio Acad. Sci. Annual report of the Ohio academy of science.
 Ann. Rpt. Quebec Soc. Protect. Plants. Annual report of the Quebec society for the protection of plants.
 Ann. Rpt. Regents Univ. State N. Y. Annual report of the regents of the University of the State of New York.
 Ann. Rpt. Smithsn. Inst. Annual report of the Smithsonian institution.
 Ann. Rpt. State Bd. Forestry Indiana. Annual report . . . of the State board of forestry [of Indiana].
 Ann. Rpt. State Cabinet Nat. Hist. N. Y. Annual report of the State cabinet of natural history of New-York.
 Ann. Rpt. State Hort. Soc. Mich. Annual report of the secretary of the State horticultural society of Michigan.
 Ann. Rpt. State Hort. Soc. Missouri. Annual report of the State horticultural society of Missouri.
 Ann. Rpt. State Mineralogist Calif. Annual report of the State mineralogist [of California].
 Annalen K. K. Naturhist. Hofmus. Wien. Annalen des K. K. Naturhistorischen Hofmuseums in Wien.

- Annalen Wiener Mus. Naturgesch. Annalen des Wiener museums der naturgeschichte.
- Annales Bot. Soc. Zool.-Bot. Fenn. Vanamo. Annales botanici Societatis zoologicae-botanicae fennicae Vanamo. (Suomalaisen eläin-ja kasvitieteellisen seuran Vanamom Kasvitieteellisia julkaisuja.)
- Annales Jard. Bot. Buitenz. Annales du Jardin botanique de Buitenzorg.
- Annales Mus. Colon. Marseille. Annales du Musée colonial de Marseille.
- Annales Mus. Congo Bot. Annales du Musée du Congo. Botanique.
- Annales Sci. Nat. Bot. Annales des sciences naturelles . . . Botanique.
- Annales Serv. Bot. Tunisie. Annales du Service botanique de la Direction générale de l'agriculture, du commerce et de la colonisation de la régence de Tunisie.
- Annales Soc. Bot. Lyon. Annales de la Société botanique de Lyon.
- Annales Soc. Scient. Bruxelles. Annales de la Société scientifique de Bruxelles.
- Annali Bot. Annali di botanica.
- Annali R. Scuola Sup. Agr. Portici. Annali della Regia scuola superiore di agricoltura in Portici.
- Annals Bolus Herb. Annals of the Bolus herbarium.
- Annals Bot. Annals of botany.
- Annals Bot. Soc. Canada. Annals of the Botanical society of Canada.
- Annals Carnegie Mus. (Pittsburgh). Annals of the Carnegie museum.
- Annals Missouri Bot. Gard. Annals of the Missouri botanical garden.
- Annals N. Y. Acad. Sci. Annals of the New York academy of sciences.
- Annals Nat. Hist. Annals of natural history (*later* Annals and magazine . . .).
- Annals Natal Govt. Mus.; Annals Natal Mus. Annals of the Natal government museum (*later* Annals of the Natal museum).
- Annals Roy. Bot. Gard. Peradeniya. Annals of the Royal botanic gardens, Peradeniya.
- Annals So. African Mus. Annals of the South African museum.
- Annals Transvaal Mus. Annals of the Transvaal museum.
- Annals Univ. Stellenbosch. Annals of the University of Stellenbosch.
- Annuaire Conserv. et Jard. Bot. Genève. Annuaire du Conservatoire et du Jardin botaniques de Genève.
- Annuario R. Ist. Bot. Roma. Annuario del R. Istituto botanico di Roma.
- Anthropol. Records. Anthropological records (University of California).
- Appalachia. Appalachia. The journal of the Appalachian mountain club.
- Apuntes de historia natural. Apuntes de historia natural. Buenos Aires.
- Arb. Bot. Have København. Arbejder fra den Botaniske have i København.
- Arb. Danske Arkt. Sta. Disko. Arbejder fra den Danske Arktiske station paa Disko.
- Arb. Deut. Landw.-Gesell. Arbeiten der Deutschen landwirtschafts-gesellschaft.
- Arch. Bot. (Forl.). Archivio botanico per la sistematica, fitogeografia e genetica . . . Forl.
- Arch. de Bot. (Caen) Bul. Mens.; Arch. de Bot. (Caen) Mém. Archives de botanique fondées par René Viguière . . . Bulletin mensuel, and Mémoires.
- Arch. Méd. et Pharm. Mil. Archives de médecine et de pharmacie militaires.
- Arch. Méd. Navale. Archives de médecine navale.
- Arch. Mus. Nac. Rio de Janeiro. Archivos do Museu nacional do Rio de Janeiro.
- Arch. Pharm. Archiv der pharmazie.
- Arkiv Bot. Arkiv för botanik. Utgifvet af K. Svenska vetenskapsakademien.
- Arq. Univ. Lisboa. Arquivos da Universidade de Lisboa.
- Atti Cong. Bot. Internaz. Genova. Atti del Congresso botanico internazionale di Genova.
- Atti Cong. Studi Colon. 1., Firenze, 1931. Atti del primo congresso di studi coloniali Firenze, 8-12 aprile 1931.
- Atti Ist. Bot. Giov. Briosi R. Univ. Pavia. Atti dell'Istituto botanico "Giovanni Briosi" e Laboratorio crittogamico italiano della R. Università di Pavia.
- Atti R. Accad. Sci. Fis. e Mat. (Napoli). Atti della Reale accademia delle scienze fisiche e matematiche.
- Atti Soc. Ligust. Sci. Nat. e Geog. Atti della Società ligustica di scienze naturali e geografiche.
- Atti Soc. Nat. e Mat. Modena. Atti della Società dei naturalisti e matematici di Modena.
- Austral. Nat. The Australian naturalist. Journal and magazine of the Naturalists' society of New South Wales.
- Austral. Zool. Australian zoologist.
- Bartonia. Barton. Proceedings of the Philadelphia botanical club.

- Beih. Bot. Centralbl. Beihefte zum Botanischen centralblatt (B. B. C. Beihefte, etc.).
- Beih. Repert. Spec. Nov. Fedde. Repertorium specierum novarum regni vegetabilis. Hrsg. von Prof. Dr. Friedrich Fedde. Beihefte.
- Beih. Tropenpfl. Beihefte zum Tropenpflanzer.
- Ber. Deut. Bot. Gesell. Berichte der Deutschen botanischen gesellschaft.
- Ber. Deut. Pharm. Gesell. Berichte der Deutschen pharmaceutischen gesellschaft.
- Ber. St. Gall. Naturw. Gesell. Bericht über die thätigkeit der St. Gallischen naturwissenschaftlichen gesellschaft.
- Bibl. Contrib. Libr. Harvard Univ. Library of Harvard university. Bibliographical contributions.
- Bibliotheca Bot. Bibliotheca botanica.
- Bienn. Rpt. Agr. Col. Survey North Dakota. Biennial report of the director of the Agricultural college survey of North Dakota.
- Bienn. Rpt. Forestry Comm. New Hampshire. State of New Hampshire. Biennial report of the Forestry commission.
- Bihang K. Svenska Vetensk.-Akad. Handl. Bihang till Kongl. Svenska vetenskaps-akademiens handlingar.
- Biol. Meddel. K. Danske Vidensk. Selsk. Biologiske meddelelser udgivne af det Kgl. Danske videnskabernes selskab.
- Biol. Ser. Catholic Univ. Amer. The Catholic university of America. Biological series. (*Sometimes Contributions from the Biological laboratory . . .*)
- Black Hills Engineer. [Published quarterly by the South Dakota state school of mines.]
- Black Rock Forest Bul. Black Rock forest bulletin. Cornwall-on-the-Hudson, N. Y.
- Blumea. Blumea. Tijdschrift voor de systematik en de geographie der planten. Uitgegeven door het Rijksherbarium te Leiden.
- Bol. Acad. Nac. Cien. Córdoba (Rep. Argentina). Boletín de la Academia nacional de ciencias en Córdoba (República argentina).
- Bol. Agência Geral Colón. (Lisboa). Boletim da agência geral das colónias.
- Bol. Agr. Colombia; Bol. Agr. Colombia Supl. República de Colombia. Ministerio de industrias. Boletín de agricultura and Suplemento al Boletín de agricultura.
- Bol. Agr. e Pec. Moçambique. Boletim agrícola e pecuário. Colónia de Moçambique.
- Bol. Agr. São Paulo. Boletim de agricultura. Secretaria de agricultura, industria, e comercio do estado de São Paulo.
- Bol. Cient. y Técn. Mus. Com. Venezuela. Boletín científico y técnico del Museo comercial de Venezuela.
- Bol. Commis. Geog. e Geol. São Paulo. Boletim da Comissão geographica e geologica de São Paulo.
- Bol. Estac. Expt. Agron. Santiago de las Vegas. Estación experimental agronómica, Santiago de las Vegas. Boletín.
- Bol. Estac. Expt. Insul. Río Piedras, P. R. Estación experimental insular Río Piedras, P. R. Boletín.
- Bol. Inspet. Fed. Obras Contra Sêc. (Brasil). Ministério da viação e obras públicas. Inspetoria federal de obras contra as sêcas. Boletim.
- Bol. Mens. Mus. Prod. Argent. Boletín mensual del Museo de productos argentinos.
- Bol. Min. Agr., Ind. e Comm. (Brasil). Boletim do Ministerio da agricultura, industria e commercio.
- Bol. Min. Agr. Rep. Argentina. República argentina. Boletín del Ministerio de agricultura. (*Later Boletín del Ministerio de agricultura de la nación.*)
- Bol. Mus. Goeldi Hist. Nat. e Ethnogr.; Bol. Mus. Paraense Hist. Nat. e Ethnogr. Boletim do Museu Goeldi de historia natural e ethnographia. (*Previously Boletim do Museu paraense . . .*)
- Bol. Mus. Nac. Chile. Boletín del Museo nacional de Chile.
- Bol. Mus. Nac. Rio de Janeiro. Boletim do Museu nacional. Rio de Janeiro.
- Bol. Oficina Agr. Ganad. Prov. Buenos Aires. República argentina. Provincia de Buenos Aires. Boletín de la Oficina agrícola ganadera.
- Bol. Pro-Cult. Region. S. C. L. Mazatlán, Sinaloa. Boletín de Pro-cultura regional, S. C. L., Mazatlán, Sin.
- Bol. R. Orto Bot. e Giard. Colon. Palermo. Bollettino del R. orto botanico e giardino coloniale di Palermo.
- Bol. R. Soc. Geog. (Madrid). Boletín de la Real sociedad geográfica.

- Bol. Serv. Agr. e Com., Colon. e Flor. Angola; Bol. Serv. Agr. e Com. Angola. República portuguesa. Colônia Angola. Boletim dos Serviços de agricultura e comércio, colonização e florestas. (*Later* Boletim da Direção dos Serviços de agricultura e comércio.)
- Bol. Soc. Africana Italia. Bollettino della Società africana d'Italia.
- Bol. Soc. Broteriana. Boletim da Sociedade broteriana.
- Bol. Soc. Colomb. Cien. Nat. Boletín de la Sociedad colombiana de ciencias naturales. (*Later* Revista . . . q. v.)
- Bol. Soc. Fom. Fabril Santiago (Chile). Boletín de la Sociedad de fomento fabril.
- Bol. Soc. Geog. Ital. Bollettino della Società geografica italiana.
- Bol. Soc. Geog. Lima. Boletín de la Sociedad geográfica de Lima.
- Bol. Soc. Geog. Lisboa. Boletim de Sociedade de geografia de Lisboa.
- Bol. Soc. Ibérica Cien. Nat. Boletín de la Sociedad ibérica de ciencias naturales.
- Bol. Soc. Venezol. Cien. Nat. Boletín de la Sociedad venezolana de ciencias naturales.
- Bol. Técn. Min. Agr. y Cría (Venezuela). Ministerio de agricultura y cría. Boletín técnico.
- Bot. Abstr. Botanical abstracts.
- Bot. and Zool. See Syokubutu oyobi dôbutu.
- Bot. Arch. Botanisches archiv. Zeitschrift für die gesamte botanik und ihre grenzgebiete.
- Bot. Bul. Bd. Agr. and Forestry Hawaii. Botanical bulletin . . . of Hawaii. Board of agriculture and forestry.
- Bot. Bul. Dept. Agr. and Stock Queensland. Queensland. Department of agriculture and stock. Botany bulletin.
- Bot. Centralbl. (Zentralbl.) Botanisches centralblatt, *later* zentralblatt.
- Bot. Gaz. Botanical gazette. Chicago. (Vol. 1, Botanical bulletin.)
- Bot. Jahrb. Engler. Botanische jahrbücher für systematik, pflanzen-geschichte und pflanzengeographie hrsg. von A. Engler.
- Bot. Jahresber. Just. Botanischer jahresbericht. (*Later* Just's botanischer jahresbericht.)
- Bot. Mag. (Tokyo). Botanical magazine, published by the Tokyo botanical society (*later* Botanical society of Japan).
- Bot. Notiser. Botaniska notiser.
- Bot. Zeit. Botanische zeitung.
- Bothalia. Bothalia. A record of contributions from the National herbarium, Union of South Africa.
- Brittonia. Brittonia. A series of botanical papers. Published by the New York botanical garden.
- Brotéria Sér. Bot.; Brotéria Cien. Nat. Brotéria série botanica; Brotéria série trimestral: ciências naturais.
- Bul. Acad. Hippone. Bulletin de l'Académie d'Hippone. Bône.
- Bul. Acad. Internatl. Géog. Bot. Bulletin de l'Académie internationale de géographie botanique.
- Bul. Agence Econ. Colon. Auton. et Terr. Afr. (France). Bulletin de l'Agence économique des colonies autonomes et des territoires africains sous mandat (*formerly* Bulletin de l'agence générale des colonies).
- Bul. Agr. Congo Belge. Bulletin agricole du Congo Belge . . . publié par la Direction de l'agriculture.
- Bul. Agr. Martinique. Bulletin agricole. Service de l'agriculture de la Martinique.
- Bul. Alabama Agr. Expt. Sta. Bulletin. Alabama agricultural experiment station.
- Bul. Amer. Geog. Soc. Bulletin of the American geographical society.
- Bul. Bern. P. Bishop Mus. Bulletin of the Bernice P. Bishop museum.
- Bul. Bio-geog. Soc. Japan. Bulletin of the Bio-geographical society of Japan.
- Bul. Bot. Dept. Jamaica. Bulletin of the Botanical department, Jamaica.
- Bul. Brookville [Ind.] Soc. Nat. Hist. Bulletin of the Brookville society of natural history.
- Bul. Buffalo Soc. Nat. Sci. Bulletin of the Buffalo society of natural sciences.
- Bul. Bur. Agr. Philippine Isl. The government of the Philippine Islands. Department of the interior. Bureau of agriculture. Bulletin.
- Bul. Bur. Amer. Ethnol. Smithsonian institution. Bureau of American ethnology. Bulletin.
- Bul. Bur. Forestry Philippine Isl. Department of agriculture and natural resources. Bureau of forestry. Bulletin.
- Bul. Bur. Forestry U. S. Dept. Agr. United States department of agriculture. Bureau of forestry. Bulletin.

- Bul. C. A. Fox Res. and Demonstr. Forest. Caroline A. Fox research and demonstration forest. Bulletin. (Concord, N. H.)
- Bul. Calif. Acad. Sci. Bulletin of the California academy of sciences.
- Bul. Chicago Acad. Sci. Bulletin of the Chicago academy of sciences.
- Bul. Cl. Sci. Acad. Roy. Belg. Académie royale de Belgique. Bulletin de la classe des sciences.
- Bul. Col. Hawaii. College of Hawaii publications. Bulletin.
- Bul. Colorado Agr. Expt. Sta.; Bul. Colorado Expt. Sta. Bulletin. Colorado agricultural experiment station. (Later Colorado experiment station.)
- Bul. Conn. Geol. and Nat. Hist. Survey. Connecticut. State geological and natural history survey. Bulletin.
- Bul. Conserv. Dept. Conserv. and Survey Div. Univ. Nebraska. University of Nebraska. Conservation and survey division. Conservation department. Bulletin.
- Bul. Dept. Agr. and Forestry, Union So. Africa (Plant Ind. Ser.). Bulletin. Union of South Africa. Department of agriculture and forestry (Plant industry series).
- Bul. Dept. Agr. Fiji. Department of agriculture, Fiji. Bulletin.
- Bul. Dépt. Agr. Indes Néerland. Bulletin du Département de l'agriculture aux Indes Néerlandaises.
- Bul. Dept. Scient. and Ind. Res. New Zeal. Department of scientific and industrial research. Bulletin.
- Bul. Div. Forestry U. S. Dept. Agr. Bulletin. United States department of agriculture. Division of forestry.
- Bul. Dom. Expt. Farms Canada. Dominion of Canada. Department of agriculture. Dominion experimental farms. Bulletin.
- Bul. Econ. Madagascar. Madagascar et dépendances. Bulletin économique.
- Bul. Essex Inst. Bulletin of the Essex institute.
- Bul. Forest Branch Dept. Interior Canada. Department of the interior, Canada. Forest branch. Bulletin.
- Bul. Forest Dept. Union So. Africa. Union of South Africa. Forest department. Bulletin.
- Bul. Geog. Soc. Phila. Bulletin of the Geographical society of Philadelphia.
- Bul. Geol. and Nat. Hist. Survey Minn. Geological and natural history survey of Minnesota. Bulletin.
- Bul. Gulf Biol. Sta. Cameron, La. Gulf biologic station, Cameron, La. Bulletin.
- Bul. Herb. Boissier. Bulletin de l'Herbier Boissier.
- Bul. Illinois State Lab. Nat. Hist.; Bul. Illinois State Nat. Hist. Survey. Bulletin of the Illinois state laboratory of natural history. (Later Bulletin of the Illinois state natural history survey.)
- Bul. Imp. Inst. Bulletin of the Imperial institute.
- Bul. Inspect. Landb. West-Indië. Bulletin. Inspectie van de landbouw in West-Indië (Paramaribo).
- Bul. Jard. Bot. Buitenz. Bulletin du Jardin botanique de Buitenzorg.
- Bul. Jard. Bot. État Bruxelles. Bulletin du Jardin botanique de l'état à Bruxelles.
- Bul. Josselyn Bot. Soc. Maine. Bulletin of the Josselyn botanical society of Maine.
- Bul. K. Bayer. Akad. Wiss. Bulletin der K. Bayerische akademie der wissenschaften.
- Bul. Kansas Agr. Expt. Sta. Bulletin. Agricultural experiment station. Kansas state college of agriculture.
- Bul. Kentucky Agr. Expt. Sta. Kentucky agricultural experiment station. Bulletin.
- Bul. Kolon. Mus. Haarlem. Bulletin van het Koloniaal museum te Haarlem.
- Bul. Lab. Nat. Hist. Univ. Iowa. Bulletins from the laboratories of natural history of the State university of Iowa. Continued as University of Iowa studies in natural history.
- Bul. Libr. Harvard Univ. Bulletin of the Library of Harvard university.
- Bul. Lloyd Libr. Bot. Pharm. and Mat. Med.; Bul. Lloyd Libr. Bot. Ser. Bulletin of the Lloyd library of botany, pharmacy and materia medica, and Botanical series.
- Bul. Misc. Inform. Kew. Bulletin of miscellaneous information. Royal botanic gardens, Kew.
- Bul. Miss. State Geol. Survey. Mississippi state geological survey. Bulletin.
- Bul. Missouri State Bd. Hort. Missouri state board of horticulture. Bulletin.

- Bul. Montana Agr. Expt. Sta. Bulletin. Montana state college of agriculture Experiment station.
- Bul. Mus. Hist. Nat. Paris. Bulletin du Muséum (national) d'histoire naturelle.
- Bul. Mus. Nat. Hist. Springfield. Museum of natural history, Springfield. Bulletin.
- Bul. Mus. North. Arizona. Museum of northern Arizona. Bulletin.
- Bul. N. Y. Bot. Gard. Bulletin of the New York botanical garden.
- Bul. Nat. Hist. Soc. New Brunsw. Bulletin of the Natural history society of New Brunswick.
- Bul. Natl. Mus. Canada Biol. Ser.; Bul. Mus. Natl. Canada Sér. Biol. National museum of Canada. Bulletin. Biological series. (*French ed.* Musée national du Canada. Série biologique.)
- Bul. Nebraska Conserv. and Soil Survey. The Nebraska conservation and soil survey. Bulletin.
- Bul. New Jersey Agr. Expt. Sta. New Jersey agricultural experiment stations. Bulletin.
- Bul. New Mexico Agr. Expt. Sta. Bulletin. New Mexico college . . . Agricultural experiment station.
- Bul. North Carolina Agr. Expt. Sta. North Carolina agricultural experiment station. Bulletin.
- Bul. Ohio Agr. Exp. Sta. Tech. Ser. Ohio agricultural experiment station. Technical series. Bulletin.
- Bul. Ohio Biol. Survey. Ohio biological survey. Bulletin.
- Bul. Oklahoma Agr. Expt. Sta. Oklahoma agricultural experiment station. Bulletin.
- Bul. Orto Bot. R. Univ. Napoli. Bullettino dell'Orto botanico della R. università di Napoli.
- Bul. Penn. Dept. Forestry. Pennsylvania department of forestry. Bulletin. (*Later* Pennsylvania department of forests and waters. Bulletin.)
- Bul. Pictou Acad. Scient. Assoc. The bulletin of the Pictou academy scientific association.
- Bul. Pub. Mus. Milwaukee. Bulletin of the Public museum of the city of Milwaukee.
- Bul. Sci. Pharm. Bulletin des sciences pharmacologiques.
- Bul. Scient. Lab. Denison Univ. Bulletin of the scientific laboratories of Denison university (*later* Journal . . .).
- Bul. Serv. Tech. Dept. Agr. Haiti. République d'Haïti. Service technique du Département de l'agriculture. Bulletin.
- Bul. So. Calif. Acad. Sci. Bulletin of the Southern California academy of sciences.
- Bul. So. Dakota Agr. Expt. Sta. Bulletin. United States experiment station South Dakota (*later* Agricultural experiment station South Dakota . . .).
- Bul. Soc. Acclim. France; Bul. Soc. Natl. Acclim. France. Bulletin de la Société (nationale) d'acclimatation de France. (1888-95, Revue des sciences naturelles appliquées. Bulletin mensuel . . .).
- Bul. Soc. Amis Sci. Nat. Rouen. Bulletin de la Société des amis des sciences naturelles, Rouen.
- Bul. Soc. Bot. France. Bulletin de la Société botanique de France.
- Bul. Soc. Bot. Genève. Bulletin de la Société botanique de Genève.
- Bul. Soc. Bot. Ital. Bulletino della Società botanica italiana.
- Bul. Soc. Géog. Com. Bordeaux. Société de géographie commerciale de Bordeaux. Bulletin.
- Bul. Soc. Géog. de l'Est. Bulletin de la Société de géographie de l'Est.
- Bul. Soc. Géog. et d'Arch. Oran. Bulletin de la Société de géographie et d'archéologie d'Oran.
- Bul. Soc. Hist. Nat. Afrique Nord. Bulletin de la Société d'histoire naturelle de l'Afrique du Nord.
- Bul. Soc. Hist. Nat. Autun. Bulletin de la Société d'histoire naturelle. Autun.
- Bul. Soc. Hist. Nat. Toulouse. Bulletin de la Société d'histoire naturelle de Toulouse.
- Bul. Soc. Linn. Normandie. Bulletin de la Société linnéenne de Normandie.
- Bul. Soc. Roy. Bot. Belg. Bulletin de la Société royale de botanique de Belgique.
- Bul. Soc. Sci. Nat. Maroc. Bulletin de la Société des sciences naturelles du Maroc.
- Bul. State Bd. Forestry Calif. California. State board of forestry. Bulletin.

- Bul. State Geol. and Biol. Survey So. Dakota; Bul. So. Dakota Geol. Survey. State geological and biological survey South Dakota. Bulletin, also South Dakota geological survey. Bulletin.
- Bul. Tech. and Sci. Serv. Min. Agr. Egypt. Ministry of agriculture, Egypt. Technical and scientific service. Bulletin.
- Bul. Texas Agr. Expt. Sta. Texas agricultural experiment station. Bulletin.
- Bul. Torrey Club. Bulletin of the Torrey botanical club.
- Bul. U. S. Dept. Agr. United States department of agriculture. Bulletin.
- Bul. U. S. Fish Comm. Bulletin of the United States fish commission.
- Bul. U. S. Geol. Survey. Bulletin of the United States geological survey.
- Bul. U. S. Natl. Mus. United States national museum. Bulletin.
- Bul. Univ. Georgia. Bulletin of the University of Georgia.
- Bul. Univ. Montana Biol. Ser. Bulletin, University of Montana. Biological series.
- Bul. Univ. New Mexico Biol. Ser. Bulletin University of New Mexico. Biological series.
- Bul. Univ. Wisconsin. Bulletin of the University of Wisconsin.
- Bul. Vermont Agr. Expt. Sta. Bulletin Vermont agricultural experiment station.
- Bul. Vermont Bot. Club. Bulletin. Vermont botanical club.
- Bul. West Virginia Agr. Expt. Sta. Bulletin. Agricultural experiment station. College of agriculture, West Virginia university.
- Bul. Wild Flow. Preserv. Soc. Bulletin. Wild flower preservation society.
- Bul. Wisconsin Nat. Hist. Soc. Bulletin of Wisconsin natural history society.
- Bul. Wyoming Agr. Expt. Sta. Wyoming agricultural experiment station. Bulletin. Later Bulletin. University of Wyoming. Agricultural experiment station.
- Bul. Yale Univ. School Forestry. Yale university. School of forestry. Bulletin.
- Bult. Sci. Fak. Terkult. Kjušu Imp. Univ. Fukuoka Japan. Bulteno ciencia de la Fakultato terkultura Kjušu imperia universitato Fukuoka, Japanujo.
- Butler Univ. Bot. Studies. Butler university botanical studies.
- Canad. Alpine Jour. Canadian alpine journal.
- Canad. Field-Nat. Canadian field-naturalist (Ottawa field-naturalists' club).
- Canad. Jour. Sci., Lit. and Hist. The Canadian journal of science, literature and history.
- Canad. Nat. and Geol.; Canad. Nat. Canadian naturalist and geologist. Later Canadian naturalist.
- Canad. Rec. Sci. Canadian record of science.
- Candollea. Candollea. Organe du Conservatoire et du Jardin botaniques de la ville de Genève.
- Cavanillesia. Cavanillesia. Rerum botanicarum acta (Barcinone).
- Cir. Oklahoma Geol. Survey. Oklahoma geological survey. Circular.
- Cir. So. Dakota Geol. and Nat. Hist. Survey. South Dakota geological and natural history survey. Circular.
- Claytonia. Claytonia. Published by the Committee on state flora of the Virginia academy of science.
- Collect. Nebraska State Hist. Soc. Collections of the Nebraska state historical society.
- Colon. Rpt. Misc. Gt. Brit. Colonial reports, miscellaneous.
- Compt. Rend. Acad. Sci. Paris. Comptes rendus hebdomadaires des séances de l'Académie des sciences.
- Compt. Rend. Assoc. Franç. Avanc. Sci. Association française pour l'avancement des sciences . . . Compte rendu.
- Comun. Mus. Concepción. Comunicaciones del Museo de Concepción.
- Contrib. Arnold Arboretum. Contributions from the Arnold arboretum.
- Contrib. Biol. Lab. Catholic Univ. Amer. Contribution from the Biological laboratory of the Catholic university of America.
- Contrib. Bot. Dept. Iowa State Col. Agr. Contributions from the Botanical department of the Iowa state college of agriculture and mechanic arts.
- Contrib. Bot. Lab. Univ. Penn. Contributions from the Botanical laboratory of the University of Pennsylvania.
- Contrib. Canad. Biol. Mar. Biol. Sta. Canada. Contributions to Canadian biology, being studies from the Marine biological stations of Canada (Supplement to the Annual report of the Department of marine and fisheries, Fisheries branch). (Later Further contributions . . .)

- Contrib. Dept. Bot. Columbia Univ. Contributions from the Department of botany of Columbia university. (*Earlier Contributions from the herbarium of Columbia college.*)
- Contrib. Dept. Bot. State Col. Washington. Contributions from the Department of botany of the State college of Washington.
- Contrib. Dudley Herb. Stanford Univ. Contributions from the Dudley herbarium of Stanford university.
- Contrib. Gray Herb. Contributions from the Gray herbarium of Harvard university.
- Contrib. Herb. Columbia Col. Contributions from the herbarium of Columbia college. (*Later Contributions from the Department of botany of Columbia university.*)
- Contrib. Herb. Frankl. and Marshall Col. Contributions from the herbarium of Franklin and Marshall college, Lancaster, Pa.
- Contrib. Lab. Bot. Univ. Montreal. Contributions du Laboratoire de botanique de l'Université de Montreal.
- Contrib. N. S. Wales Natl. Herb. Contributions from the New South Wales national herbarium.
- Contrib. U. S. Natl. Herb. Contributions from the United States national herbarium.
- Cowichan Field Nat. Club Bul. Cowichan field naturalists' club. Bulletin.
- Dansk Bot. Arkiv. Dansk botanisk arkiv. Udgivet af Dansk botanisk forening.
- Darwiniana. Darwiniana. Carpeta del "Darwinion," laboratorio particular del doctor C. M. Hicken.
- Denkschr. Math.-Naturw. Kl. K. Akad. Wiss. Wien. Denkschriften der Kaiserliche akademie der wissenschaften. Mathematisch-wissenschaftliche klasse.
- Detroit Lancet.
- Ecol. Monog. Ecological monographs.
- Ecology. Ecology (*continuation of Plant world*).
- Econ. Paper North Carolina Geol. and Econ. Survey. North Carolina geological and economic survey. Economic paper.
- Edinb. New Phil. Jour. The Edinburgh new philosophical journal . . .
- Erythea. Erythea. A journal of botany, west American and general.
- Ext. Bul. Miss. State Col. Extension bulletin. Extension department of Mississippi state college.
- Farmers' Bul. U. S. Dept. Agr. United States department of agriculture. Farmers' bulletin.
- Field and Lab. So. Methodist Univ. Field and laboratory, contributions from the science departments of Southern Methodist university.
- Final Rpt. Geol. Survey New Jersey. Geological survey of New Jersey. Final report of the state geologist.
- Flora. Flora; oder allgemeine botanische zeitung. Jena.
- Forestry Quart. Forestry quarterly.
- Forests Dept. Bul. West. Austral. Forests department bulletin. Western Australia.
- Fortschr. Bot. Fortschritte der botanik . . . Berlin.
- Furman Bul. The Furman bulletin (running title: Bulletin of Furman university). Greenville, S. C.
- Further Contrib. Canad. Biol. Mar. Biol. Sta. Canada. Further contributions to Canadian biology, being studies from the Marine biological station of Canada (Supplement to the Annual report of the Department of marine and fisheries, Fisheries branch). (*Earlier Contributions . . .*)
- Gard. Bul. Straits Settlm. The gardens' bulletin, Straits Settlements.
- Gard. Chron. Gardeners' chronicle.
- Gartenfl. Gartenflora.
- Geelong Nat. Geelong naturalist.
- Geneesk. Tijdschr. Nederland.-Indië. Geneeskundig tijdschrift voor Nederlandsch-Indië.
- Geo: Agr., Colon. y Ramas Anex. Bolivia. Geo: agricultura, colonización y ramas anexas, Bolivia.
- Geol. and Agr. State Expt. Sta. [Louisiana]. Geology and agriculture . . . under direction of state experiment stations, Baton Rouge.
- Geol. Survey Wisconsin Survey. Geological survey of Wisconsin. Survey of . . .
- Göteborgs K. Vetensk.- o. Vitterh.-Samh. Handl. Göteborgs Kungl. vetenskaps- och vitterhets-samhälles handlingar.

- Hawaiian Forester and Agr. Hawaiian forester and agriculturist.
 Hawaiian Plant. Rec. Hawaiian planters record.
 Heil- u. Gewürz-Pflanz. Heil- und gewürz-pflanzen.
 Inst. Paper Imp. Forestry Inst. Oxford. Imperial forestry institute. University of Oxford. Institute paper.
 Iowa Geol. Survey Bul. Iowa geological survey bulletin.
 Iowa Nat. Iowa naturalist.
 Iowa State Col. Jour. Sci. Iowa state college journal of science.
 Jahrb. Hamburg. Wiss. Anst. Jahrbuch der Hamburgischen wissenschaftlichen anstalten.
 Jahresber. Schles. Gesell. Vaterl. Cult. Jahresbericht der Schlesischen gesellschaft für vaterländische cultur.
 Jahresber. Ver. Erdk. Dresden. Jahresberichte des Vereins für erdkunde zu Dresden.
 Joint Bul. Vermont Bot. and Bird Clubs. Joint bulletin. Vermont botanical and bird clubs.
 Jor. Sci. Mat., Fis. e Nat. Lisboa. Jornal de sciências matemáticas, físicas e naturaes publicado da Academia das sciências de Lisboa.
 Jour. Amer. Folk-lore. Journal of American folk-lore.
 Jour. Amer. Pharm. Assoc. Journal of the American pharmaceutical association.
 Jour. and Proc. Hamilton Assoc. Journal and proceedings of the Hamilton association of Nova Scotia.
 Jour. and Proc. Mueller Bot. Soc. West. Austr. Journal and proceedings of the Mueller botanic society of Western Australia.
 Jour. and Proc. Roy. Soc. N. S. Wales. Journal and proceedings of the Royal society of New South Wales.
 Jour. and Proc. Roy. Soc. West. Austr. Journal and proceedings of the Royal society of Western Australia.
 Jour. Arnold Arboretum. Journal of the Arnold arboretum.
 Jour. Asiatic Soc. Bengal. Journal of the Asiatic society of Bengal.
 Jour. Bd. Agr. Brit. Guiana. Journal of the Board of agriculture of British Guiana.
 Jour. Bombay Nat. Hist. Soc. Journal of the Bombay natural history society.
 Jour. Bot. Journal of botany, British and foreign.
 Jour. Bot. Hook. The journal of botany, being a second series of the Botanical miscellany . . . By William Jackson Hooker.
 Jour. Cincinnati Soc. Nat. Hist. Journal of the Cincinnati society of natural history.
 Jour. de Bot. Journal de botanique.
 Jour. de Pharm. et Chim. Journal de pharmacie et de chimie.
 Jour. Dept. Agr. Kyushu Imp. Univ. Journal of the Department of agriculture, Kyushu imperial university, Fukuoka, Japan.
 Jour. Dept. Agr. Porto Rico. Journal of the Department of agriculture, Porto Rico.
 Jour. Dept. Agr. Victoria. Journal of the Department of agriculture of Victoria.
 Jour. Dept. Agr. West. Austr. Journal of the Department of agriculture, Western Australia.
 Jour. East Africa and Uganda Nat. Hist. Soc. Journal of the East Africa and Uganda natural history society.
 Jour. Ecology. Journal of ecology.
 Jour. Elisha Mitch. Sci. Soc. Journal of the Elisha Mitchell scientific society.
 Jour. Fac. Agr. Hokkaido Imp. Univ. Journal of the Faculty of agriculture, Hokkaido imperial university.
 Jour. Fed. Malay States Mus. Journal of the Federated Malay States museums.
 Jour. Jap. Bot. Journal of Japanese botany.
 Jour. Linn. Soc. Bot. Journal of the Linnean society of London. Botany.
 Jour. Malay. Branch Roy. Asiatic Soc. Malayan branch Royal Asiatic society. Journal.
 Jour. Polynesian Soc. Journal of the Polynesian society (New Plymouth, N. Z.).
 Jour. Scient. Lab. Denison Univ. Journal of the Scientific laboratories of Denison university.
 Jour. So. African Bot. The journal of South African botany.
 Jour. Soc. Bibl. Nat. Hist. Journal of the Society for the bibliography of natural history. London.

- Jour. Soc. Trop. Agr. (Formosa).** Journal of the Society of tropical agriculture (Nettai nōgaku kwaishi, Taiwan).
- Jour. Straits Branch Roy. Asiatic Soc.** Journal of the Straits branch of the Royal Asiatic society.
- Jour. Tenn. Acad. Sci.** Journal of the Tennessee academy of science.
- Jour. Trans. Victoria Inst. (London).** Journal of the transactions of the Victoria institute, or Philosophical society of Great Britain.
- Jour. Trav. and Nat. Hist.** Journal of travel and natural history. Edinburgh.
- Jour. Washington Acad. Sci.** Journal of the Washington academy of sciences.
- Jour. West Austral. Nat. Hist. Soc.** Journal of the West Australian natural history society.
- K. Danske Vidensk. Selsk. Skr., Naturv. og Math. Afd.** Kongelige Danske videnskabernes selskabs skrifter. Naturvidenskabelig og matematisk afdeling.
- K. Svenska Vetensk.-Akad. Handl.** K. Svenska vetenskaps-akademien handlingar.
- Kansas Univ. Sci. Bul.** Kansas university science bulletin (caption title reads: University of Kansas. Science bulletin).
- Kudoa.** Kudoa (Taihoku, Formosa).
- Lav. Ist. Bot. R. Univ. Modena Mem.** Lavori dell' Istituto botanico della R. università de Modena. Memorie.
- Lav. R. Ist. Bot. Catania.** Lavori eseguiti presso il R. istituto botanico di Catania.
- Lavoura.** A lavoura. Boletim da Sociedad nacional de agricultura. Rio de Janeiro.
- Leaflets West. Bot.** Leaflets of western botany. San Francisco.
- Lilloa.** Lilloa. Revista de botanica (Universidad nacional de Tucumán. Instituto Miguel Lillo).
- Linnaea.** Linnaea. Ein journal für die botanik in ihrem ganzen umfange.
- Lloydia.** Lloydia, a quarterly journal of biological science. Cincinnati, Ohio.
- London Jour. Bot.** The London journal of botany.
- Lunds Univ. Årsskr.** Lunds universitets årsskrift. (Acta universitatis lundensis.)
- Madroño.** Madroño. A west American journal of botany.
- Maine Bul.** Maine bulletin.
- Maine Nat.** The Maine naturalist, journal of the Knox academy of arts and sciences . . .
- Malpighia.** Malpighia, rassegna mensile di botanica.
- Mazama.** Mazama. Published by the Mazamas, Portland, Oregon.
- Meddel. Göteborgs Bot. Trädgård.** See Acta Horti Gothoburg.
- Meddel. om Grönland.** Meddelelser om Grönland udgivne af Kommissionen for ledelsen af de geologiske og geografiske undersøgelser i Grönland.
- Meded. Dept. Landb. [Nederland.-Indië].** Mededeelingen uitgaande de Departement van landbouw Batavia.
- Meded. Kolon. Inst. Amsterdam Afd. Handelsmus.** Koloniaal instituut te Amsterdam. Mededeeling. Afdeeling handelsmuseum.
- Meded. Lands Plant. Buitenz.** Mededeelingen uit 's Lands plantentuin Buitenzorg.
- Meded. Rijks Herb. Leiden.** Mededeelingen van 's Rijks herbarium Leiden.
- Mem. Acad. Cien. y Artes Barcelona.** Memorias de la (Real) Academia de ciencias y artes de Barcelona.
- Mém. Acad. Malgache.** Mémoires de l'Académie malgache.
- Mém. Acad. Roy. Belge Cl. Sci. Collect. in-4°.** Académie royale de Belgique. Classe des sciences. Mémoires. Collection in-4°.
- Mém. Acad. Sci. Inst. France.** Mémoires de l'Académie des sciences de l'Institut de France.
- Mém. Acad. Sci. St. Pétersb. VI. Sci. Math., Phys. et Nat.** Mémoires de l'Académie des sciences de St. Pétersbourg. 6. sér., Sciences mathématiques, physiques et naturelles.
- Mem. Amer. Anthropol. Assoc.** Memoirs of the American anthropological association.
- Mem. Austral. Mus. Sydney.** Australian museum, Sydney. Memoir.
- Mem. Bot. Survey So. Africa.** Botanical survey of South Africa. Memoir.
- Mem. Brooklyn Bot. Gard.** Memoirs of the Brooklyn botanic garden.
- Mem. Canada Geol. Survey Biol. Ser.** Canada. Department of mines. Geological survey. Memoir. Biological series (title varies).

- Mem. Carnegie Mus. (Pittsburgh).** Memoirs of the Carnegie museum. Pittsburgh.
- Mém. Cl. Sci. Acad. Imp. Sci., Belles-Lett. et Arts Lyon.** Mémoires de l'Académie impériale des sciences, belles-lettres et arts de Lyon. Classe des sciences.
- Mem. Cong. Venezol. Med.** Memoria del IV Congreso venezolana de medicinas.
- Mem. Cornell Agr. Expt. Sta.** Memoir. Cornell university. Agricultural experiment station.
- Mem. Dept. Agr. Trinidad and Tobago.** Memoirs of the Department of agriculture, Trinidad and Tobago.
- Mém. Herb. Boissier.** Mémoires de l'Herbier Boissier.
- Mém. Inst. Égyptien; Mém. Inst. Égypte.** Mémoires de l'Institut égyptien. (*Later Mémoires à l'Institut d'Égypte.*)
- Mem. Lit. and Phil. Soc. Manchester; Mem. Manchester Lit. and Phil. Soc.** Memoirs of the literary and philosophical society of Manchester. (*Later Memoirs of the Manchester literary and philosophical society.*)
- Mem. N. Y. Bot. Gard.** Memoirs of the New York botanical garden.
- Mem. Natl. Acad. Sci.** Memoirs of the National academy of sciences. Washington, D. C.
- Mem. R. Accad. Sci., Lett. ed Arti Modena.** Memorie della Regia accademia di scienze, lettere ed arti in Modena.
- Mem. R. Soc. Españ. Hist. Nat.** Memorias de la Real sociedad española de historia natural.
- Mém. Sect. Sci. Nat. et Méd. Inst. Roy. Colon. Belge Collect. in-8°.** Institut royal colonial belge. Section des sciences naturelles et médicales. Mémoires. Collection in-8°.
- Mém. Soc. Bot. France.** Mémoires publiées par la Société botanique de France.
- Mem. Soc. Cubana Hist. Nat. "Felipe Poey."** Memorias de la Sociedad cubana de historia natural "Felipe Poey."
- Mém. Soc. Hist. Nat. Afrique Nord.** Mémoires de la Société d'histoire naturelle de l'Afrique du Nord.
- Mém. Soc. Imp. (Natl.) Sci. Nat. Cherbourg.** Mémoires de la Société impériale [*later nationale*] des sciences naturelles de Cherbourg.
- Mém. Soc. Linn. Normandie.** Mémoires de la Société linnéenne de Normandie.
- Mém. Soc. Sci. Nat. Maroc.** Mémoires de la Société des sciences naturelles du Maroc.
- Mem. Torrey Club.** Memoirs of the Torrey botanical club.
- Merck's Report.** Merck's report: a practical journal of pharmacy.
- México antiguo.** El México antiguo.
- Minnesota Bot. Studies.** Minnesota botanical studies (Geological and natural history survey. Reports of the survey . . . Botanical series).
- Misc. Cir. U. S. Dept. Agr.** United States department of agriculture. Miscellaneous circular.
- Misc. Pub. Dept. Agr. N. S. Wales.** Department of agriculture, Sydney, New South Wales. Miscellaneous publication.
- Misc. Pub. Mus. Zool. Univ. Mich.** University of Michigan. Museum of zoology. Miscellaneous publications.
- Misc. Pub. U. S. Dept. Agr.** United States department of agriculture. Miscellaneous publication.
- Missouri Bot. Gard. Bul.** Missouri botanical garden bulletin.
- Mitt. Deut. Schutzgeb. Wiss. Beih. Deut. Kolonialbl.; . . . Ergänzungsh.** Mitteilungen aus den Deutschen schutzgebieten. Wissenschaftliche beihfte zum Deutschen kolonialblatte; . . . Ergänzungshfte.
- Mitt. Forschungsreis. u. Gelehr. Deut. Schutzgeb.** Mitteilungen von forschungsreisenden und gelehrten aus den Deutschen schutzgebieten. *Later* Mitteilungen aus den Deutschen schutzgebieten . . .
- Mitt. Geog. Gesell. Hamburg.** Mitteilungen der Geographischen gesellschaft in Hamburg.
- Mitt. Inst. Allg. Bot. Hamburg.** Mitteilungen aus dem Institut für allgemeine botanik in Hamburg.
- Mitt. Seminars Orient. Sprach. Univ. Berlin.** Mitteilungen des Seminars für orientalische sprachen an der Königlichen Friedrich Wilhelms-Universität zu Berlin.
- Mitt. Ver. Erdk. Dresden.** Mitteilungen des Vereins für erdkunde zu Dresden.
- Monde des Plant.** Le monde des plantes.

- Monog. e Rap. Colon. Min. Colon. (Italy). Ministero delle colonie. Direzione centrale degli affari coloniali. Ufficio di studi coloniali. Monografie e rapporti coloniali.
- Montana Agr. Col. Sci. Studies. Montana agricultural college science studies.
- Muhlenbergia. Muhlenbergia. An illustrated monthly journal of botany. Reno, Nevada [etc.].
- Nat. and Appl. Sci. Bul. Univ. Philippines. University of the Philippines. Natural and applied science bulletin.
- Nat. Hist. Bul. Grand Canyon Nat. Hist. Assoc. Natural history bulletin. Grand Canyon natural history association.
- Naturaliste. Le naturaliste; revue illustrée des sciences naturelles.
- Naturaliste Canad. Le naturaliste canadien.
- Natuurk. Tijdschr. Nederland.-Indië. Natuurkundige tijdschrift voor Nederlandsch-Indië.
- New Orleans Med. and Surg. Jour. New Orleans medical and surgical journal.
- New York Jour. Med. The New York journal of medicine.
- New York State Mus. Bul. (Rpt. State Bot.) New York state museum bulletin (Report of the botanist).
- New York State Mus. Handbook. New York state museum handbook.
- New Zeal. Jour. Sci. and Technol. New Zealand journal of science and technology.
- North Amer. Fauna. United States department of agriculture. Bureau of biological survey. North American fauna.
- Northwest science. Northwest science. Published by the Northwest scientific association, Cheney, Washington.
- Notizbl. K. Bot. Gart. Berlin. Notizblatt des Königl. botanischen Gartens und museums zu Berlin. (Later Notizblatt des botanischen Gartens . . .)
- Notulae Syst. Mus. Hist. Nat. Paris. Notulae systematicae, Muséum national d'histoire naturelle, Paris.
- Nouv. Annales Mus. Hist. Nat. Paris. Nouvelles annales du Muséum d'histoire naturelle, Paris.
- Nouv. Arch. Miss. Scient. et Litt. (France). Nouvelles archives des missions scientifiques et littéraires.
- Nouv. Arch. Mus. Hist. Nat. Paris. Nouvelles archives du Muséum d'histoire naturelle.
- Nova Acta R. Soc. Scient. Upsal. Nova acta Regiae societatis scientiarum upsaliensis.
- Nuovo Gior. Bot. Ital. Nuovo giornale botanico italiano.
- Nyt Mag. Naturvidensk. Nyt magazin for naturvidenskaberne. Oslo.
- Occas. Paper South. Forest Expt. Sta. Occasional paper. Southern forest experiment station.
- Occas. Papers Bern. P. Bishop Mus. Bernice P. Bishop museum. Occasional papers. (Vol. 1-8 have two pagings; at top of page for individual number, at bottom of page for whole volume.)
- Occas. Papers Riverside Junior Col. Occasional papers of Riverside junior college.
- Occas. Papers Univ. Hawaii. University of Hawaii. Occasional papers.
- Öfvers. K. Vetensk.-Akad. Förhandl. Öfversigt af Kongl. vetenskaps-akademiens förhandlingar. . . Stockholm.
- Oesterr. Bot. Zeitschr. Oesterreichische botanische zeitschrift.
- Official Year Book Union So. Africa. Official year book of the Union of South Africa and of Basutoland, Bechuanaland Protectorate, and Swaziland.
- Oglethorpe Med. and Surg. Journ. Oglethorpe medical and surgical journal.
- Ohio Jour. Sci. Ohio journal of science.
- Ohio Med. and Surg. Jour. Ohio medical and surgical journal.
- Ohio Nat. The Ohio naturalist.
- Oregon out of doors. Published by the Mazamas, Portland, Oregon.
- Ottawa Nat. Ottawa naturalist.
- Papers and Proc. Roy. Soc. Tasmania. Papers and proceedings of the Royal society of Tasmania.
- Papers Dept. Mar. Biol. Carnegie Inst. Washington. Papers from the Department of marine biology of the Carnegie institution of Washington.
- Papers Mich. Acad. Sci. Papers of the Michigan academy of science, arts and letters.
- Pharm. Arch. Pharmaceutical archives.
- Pharm. Jour. and Trans. Pharmaceutical journal and transactions.
- Pharm. Rev. Pharmaceutical review. Continuation of Pharmaceutische Rundschau.

- Pharm. Rundschau (N. Y.). Pharmaceutische rundschau; eine monatschrift für die wissenschaftlichen und gewerblichen interessen der pharmacie . . . in den Vereinigten Staaten.
- Pharm. Weekbl. Nederl. Pharmaceutisch weekblad voor Nederland.
- Phil. Trans. Roy. Soc. Philosophical transactions of the Royal society.
- Philippine Agr. Rev. The Philippine agricultural review.
- Philippine Jour. Sci. Philippine journal of science.
- Physis. Physis. Revista de la Sociedad argentina de ciencias naturales.
- Pittonia. Pittonia. A series of papers relating to botany. By E. L. Greene.
- Plant World. Plant world; a monthly journal of botany. Binghamton, N. Y. [etc.].
- Pop. Bul. Bur. Sci. Philippine Isl. The government of the Philippine Islands. Department of agriculture and natural resources. Bureau of science, Manila. Popular bulletin.
- Postelsia. Postelsia. The yearbook of the Minnesota seaside station.
- Prilozh. Trudy Prikl. Bot., Gen. i Selekt. (Suppl. Bull. Appl. Bot., Gen. and Plant-Breed. Leningr.) Prilozhenie k Trudam po prikladnoi botanike, genetike i selektsii (Supplement to the Bulletin of applied botany, of genetics and plant-breeding). Leningrad.
- Proc. Acad. Nat. Sci. Phila. Proceedings of the Academy of natural sciences of Philadelphia.
- Proc. Amer. Acad. Arts and Sci. Proceedings of the American academy of arts and sciences.
- Proc. Amer. Pharm. Assoc. Proceedings of the American pharmaceutical association.
- Proc. Amer. Phil. Soc. Proceedings of the American philosophical society.
- Proc. and Trans. Nova Scot. Inst. Sci. Proceedings and transactions of the Nova Scotian institute of natural science (after v. 7, of science).
- Proc. and Trans. Roy. Soc. Canada. Proceedings and transactions of the Royal society of Canada.
- Proc. Ann Arbor Scient. Assoc. Proceedings of the Ann Arbor scientific association.
- Proc. Asiatic Soc. Bengal. Proceedings of the Asiatic society of Bengal.
- Proc. Biol. Soc. Washington. Proceedings of the Biological society of Washington.
- Proc. Boston Soc. Nat. Hist. Proceedings of the Boston society of natural history.
- Proc. Calif. Acad. Sci. Proceedings of the California academy of sciences.
- Proc. Cambridge Phil. Soc. Proceedings of the Cambridge philosophical society.
- Proc. Davenport Acad. Sci. Proceedings of the Davenport academy of natural sciences.
- Proc. Delaware Co. Inst. Sci. Proceedings of the Delaware county institute of science.
- Proc. Elliott Soc. Nat. Hist. Charleston, S. C. Proceedings of the Elliott society of natural history of Charleston, South-Carolina.
- Proc. Hawaiian Acad. Sci. (Spec. Pub. Bern. P. Bishop Mus.). Proceedings Hawaiian academy of science. Bernice P. Bishop museum special publication.
- Proc. Indiana Acad. Sci. Proceedings of the Indiana academy of science.
- Proc. Iowa Acad. Sci. Proceedings of the Iowa academy of science.
- Proc. Iowa State Med. and Chirurg. Soc. Proceedings of the Iowa state medical and chirurgical society.
- Proc. Kentucky State Med. Soc. Proceedings of the Kentucky state medical society.
- Proc. Linn. Soc. N. S. Wales. Proceedings of the Linnean society of New South Wales.
- Proc. Manchester Inst. Arts and Sci. Proceedings of the Manchester institute of arts and sciences (New Hampshire).
- Proc. Med. Assoc. State Alabama. Proceedings of the Medical association of the state of Alabama.
- Proc. Med. Conv. Ohio. Proceedings of the Medical convention of Ohio.
- Proc. Mich. Pharm. Assoc. Proceedings of the Michigan pharmaceutical association.
- Proc. Nat. Hist. Assoc. Miramichi. Proceedings of the Natural history association. Miramichi, Chatham, New Brunswick.
- Proc. Nat. Hist. Soc. Wisconsin. Proceedings of the Natural history society of Wisconsin.
- Proc. Newport Nat. Hist. Soc. Proceedings of the Newport natural history society. Newport, R. I.

- Proc. Ohio Acad. Sci. Ohio academy of science. Proceedings.
- Proc. Oklahoma Acad. Sci. Proceedings of the Oklahoma academy of science.
- Proc. Pan-Pacific Scient. Conf. Proceedings of the first Pan-Pacific scientific conference (Bernice P. Bishop museum special publication).
- Proc. Portland Soc. Nat. Hist. Proceedings of the Portland society of natural history. Portland, Maine.
- Proc. Rhodesia Scient. Assoc. Proceedings of the Rhodesia scientific association.
- Proc. Rochester Acad. Sci. Proceedings of the Rochester academy of science. Rochester, N. Y.
- Proc. Roy. Soc. Queensland. Proceedings of the Royal society of Queensland.
- Proc. Roy. Soc. Victoria. Proceedings of the Royal society of Victoria (Transactions and proceedings 1861-87).
- Proc. U. S. Natl. Mus. Proceedings of the United States national museum.
- Proc. Washington Acad. Sci. Proceedings of the Washington academy of sciences. Washington, D. C.
- Proc. West Virginia Acad. Sci. The West Virginia academy of science. Proceedings.
- Prog. Rei Bot. Progressus rei botanicae.
- [Pub.] Bur. Govt. Lab. Philippine Isl. Department of the interior. Bureau of government laboratories. [Publications.]
- Pub. Com. Études Hist. et Scient. Afrique Occid. Franç. Publications du Comité d'études historiques et scientifiques de l'Afrique occidentale française.
- Pub. Com. Honor. Reducc. Indios. Ministerio del interior. Comisión honoraria de reducciones de Indios. Publicación. (Buenos Aires.)
- Pub. Dept. Conserv. Indiana. State of Indiana. Department of conservation. Publication.
- Pub. Field Columbian Mus. Bot. Ser.; Pub. Field Mus. Nat. Hist. Bot. Ser. Publication of the Field Columbian museum, *later* Field museum of natural history. Publication. Botanical series.
- Pub. Inspect. Fed. Obras Contra Secc. (Brasil). Publicação. Ministerio da viação e obras publicas. Inspectoria federal de obras contra as seccas.
- Pub. Inst. Invest. Geog. Fac. Filos. y Letras Univ. Buenos Aires. Facultad de filosofía y letras de la Universidad nacional de Buenos Aires. Publicaciones del Instituto de investigaciones geográficas.
- Pub. Inst. Natl. Étude Agron. Congo Belge. Publications de l'Institut national pour l'étude agronomique du Congo Belge.
- Pub. Mich. Geol. and Biol. Survey (Biol. Ser.). Michigan geological and biological survey. Publication. Biological series.
- Pub. Middle Amer. Res. Ser. Tulane Univ. Louisiana. The Tulane university of Louisiana. Middle American research series.
- Pub. Mus. Agr. Soc. Rural Argentina. Museo agrícola de la Sociedad rural argentina. Publicación.
- [Pub.] Mus. Cien. Nat. Univ. Nac. Tucumán. Universidad nacional de Tucumán. Museo de ciencias naturales (*later* Museo de historia natural).
- Pub. Oklahoma Div. Forestry. Division of forestry. Oklahoma planning and resources board. Publication.
- Pub. Sierra Club. Publication of the Sierra Club.
- Pub. Univ. Oklahoma Biol. Survey. Publications of the University of Oklahoma. Biological survey.
- Pub. West Texas Hist. and Sci. Soc. West Texas historical and scientific society. Publications.
- Quart. Oregon Hist. Soc. Quarterly of the Oregon historical society.
- Queensland Agr. Jour. Queensland agricultural journal.
- Queensland Nat. Queensland naturalist.
- Rassegna Econ. Colon. (Italy). Rassegna economica delle colonie.
- Rec. Albany Mus. Records of the Albany museum, Grahamstown, South Africa.
- Rec. Auckland Inst. and Mus. Records of the Auckland institute and museum.
- Recueil Trav. Bot. Néerland. Recueil des travaux botaniques néerlandais.
- Relaz. e Monog. Agr.-Colon. Ist. Agr. Colon. Ital. Relazioni e monografie agrario-coloniali. Istituto agricolo coloniale italiano. Firenze.
- Rend. Sem. Fac. Sci. R. Univ. Cagliari. Rendiconti del Seminario della facoltà di scienze della R. Università di Cagliari.
- Repert. Spec. Nov. Fedde. Repertorium specierum novarum regni vegetabilis hrsg. von F. Fedde.
- Res. Pub. Univ. Hawaii. University of Hawaii. Research publication.
- Res. Studies State Col. Washington. Research studies of the State college of Washington.
- Revista Acad. Colomb. Cien. Exact., Fís. y Nat. Revista de la Academia colombiana de ciencias exactas, físicas y naturales.

- Revista Agr. Puerto Rico.** Revista de agricultura de Puerto Rico.
Revista Agron. Revista agronómica. (Not seen.)
Revista Argentina Agron. Revista argentina de agronomía.
Revista Bibl. Chilena. Revista de bibliografía chilena.
Revista Centro Sci., Letr. e Art. Campinas. Revista do Centro de ciencias, letras e artes de Campinas.
Revista Chilena Hist. Nat. Revista chilena de historia natural.
Revista Fac. Agron. Univ. La Plata; Revista Fac. Agron. y Vet. La Plata. Revista de la Facultad de agronomía. Universidad nacional de La Plata.
Earlier Revista de la Facultad de agronomía y veterinaria.
Revista Fac. Agron. y Vet. Univ. Buenos Aires. Universidad de Buenos Aires. Revista de la Facultad de agronomía y veterinaria.
Revista Farm. (Buenos Aires.) Revista farmaceutica.
Revista Flora Med. (Rio de Janeiro.) Revista da flora medica.
Revista Inst. Paraguayo. Revista del Instituto paraguayo.
Revista Jard. Bot. y Mus. Hist. Nat. Paraguay. Revista del Jardín botánico y Museo de historia natural del Paraguay.
Revista Mus. La Plata. Revista del Museo de La Plata. Secc. Oficial.
Revista Mus. Nac. Lima. Revista del Museo nacional. Lima, Perú.
Revista Mus. Paulista. Revista do Museu Paulista.
Revista Mus. Prov. Cien. Nat. Córdoba. (Not seen.)
Revista Soc. Colomb. Cien. Nat. Revista de la Sociedad colombiana de ciencias naturales (*earlier* Boletín . . . q. v.)
Revista Sudamer. Bot. Revista sudamericana de botánica.
Revista Univ. Nac. Córdoba. Revista de la Universidad nacional de Córdoba.
Revista Universitaria Cuzco. Revista universitaria. Organo de la Universidad nacional del Cuzco.
Revista Universitaria (Santiago de Chile). Revista universitaria. Universidad católica. Santiago de Chile.
Revue Bot. Appl. et Agr. Trop. Revue de botanique appliquée et d'agriculture tropicale.
Revue Bot. (Toulouse). Revue de botanique; bulletin mensuel de la Société française de botanique. Toulouse.
Revue Cult. Colon. Revue des cultures coloniales.
Revue de Madagascar.
Revue Gén. Bot. Revue général de botanique.
Revue Géog. Revue de géographie.
Revue Hort. Algérie. Revue horticole de l'Algérie.
Revue Sci. Nat. Appl. Soc. Natl. Acclim. France. Revue des sciences naturelles appliquées. Bulletin mensuel de la Société nationale d'acclimatation de France.
Revue Tunis. Inst. Carthage. Revue tunisienne. Organe de l'Institut de Carthage.
Revue Zool. et Bot. Afric. Revue de zoologie et de botanique africaines.
Rhodora. Rhodora. Journal of the New England botanical club.
Riv. Ital. Essen., Profumi e Piante Off. Rivista italiana delle essenze, dei profumi e delle piante officinali.
Rpt. Austral. and New Zeal. Assoc. Adv. Sci.; Rpt. Australas. Assoc. Adv. Sci. Report of the Australian and New Zealand association for the advancement of science (*formerly* Australasian association).
Rpt. Bd. Educ. Conn. Report of the Board of education of the state of Connecticut.
Rpt. Bot. Survey Nebraska. University of Nebraska. Botanical survey of Nebraska. Report.
Rpt. Col. Agr. and Mech. Arts New Hampshire. Report of the Board of trustees of the College of agriculture and mechanic arts to the New Hampshire legislature.
Rpt. Colon. Herb. (Natal). See Ann. Rpt. Colon. Herb. (Natal).
Rpt. Forestry Comm. New Hampshire. Report of the Forestry commission of New Hampshire.
Rpt. Geol. and Nat. Hist. Survey Minn. Report on the Geological and natural history survey of Minnesota.
Rpt. Geol. Survey Ohio. Report of the Geological survey of Ohio.
Rpt. Govt. Bur. Microbiol. N. S. Wales. New South Wales. Report of the Government bureau of microbiology.
Rpt. Great Barrier Reef Comm. Reports of the Great Barrier reef committee.
Rpt. Iowa State Hort. Soc. Report of the Iowa state horticultural society (cover and running title: Transactions).

- Rpt. Kansas State Bd. Agr. Report of the Kansas state board of agriculture.
 Rpt. (Ann. Rpt.) Mich. Acad. Sci. Report of the Michigan academy of science (sometimes Annual report).
 Rpt. Missouri State Hort. Soc. Report of the Missouri state horticultural society.
 Rpt. Natal Bot. Gard. (Rpt. Colon. Herb.). Report on Natal botanic gardens Colonial herbarium. Report. *See also* Ann. Rpt. Colon. Herb. (Natal).
 Rpt. Prog. Geol. Survey Canada. Geological survey of Canada. Report of progress (later Annual report, q. v.).
 Rpt. Prog. Geol. Survey Kentucky. Geological survey of Kentucky. Reports of progress.
 Rpt. Prog. 2d Geol. Survey Penn. Second geological survey of Pennsylvania. Report of progress.
 Rpt. Prov. Mus. Nat. Hist. Brit. Columbia. Report of the Provincial museum of natural history (British Columbia).
 Rpt. So. African Assoc. Adv. Sci. Report of the South African association for the advancement of science. (Later South African journal of science.)
 Rpt. State Bd. Geol. Survey Mich. Report of the State board of geological survey of Michigan.
 Rpt. Transvaal Dept. Agr. Report of the Transvaal department of agriculture.
 Rpt. U. S. Commr. Agr. Report of the commissioner of agriculture. Washington, D. C.
 [Rpt.] West Virginia Geol. Survey. West Virginia geological survey. [Report.]
 Sarawak Mus. Jour. Sarawak museum journal.
 Schweiz. Apoth. Zeit. Schweizerische apotheker-zeitung. Journal suisse de pharmacie.
 Sci. Bul. Mus. Brooklyn Inst. Arts and Sci. The museum of the Brooklyn institute of arts and sciences. Science bulletin.
 Scient. Contrib. Trop. Plant Res. Found. Tropical plant research foundation. Scientific contributions.
 Sitzungsber. K. Preuss. Akad. Wiss. Sitzungsberichte der Königlich preussischen akademie der wissenschaften.
 Sitzungsber. Math.-Naturw. Cl. K. Akad. Wiss. Wien. Akademie der wissenschaften in Wien. Mathematisch-naturwissenschaftliche klasse. Sitzungsberichte.
 Sitzungs-Ber. Naturw. Gesell. Isis Dresden. Sitzungs-berichte der naturwissenschaftlichen gesellschaft Isis in Dresden.
 Skr. Svalbard og Ishavet (Oslo). Skrifter om Svalbard og Ishavet.
 Skr. Vidensk.-Selsk. Christiania I, Math.-Naturv. Kl. Skrifter udgivne af Videnskabs-selskabet i Christiania I, Mathematisk-naturvidenskabelig klasse (later Norske videnskaps akademi).
 Smithsn. Misc. Collect. Smithsonian miscellaneous collections.
 So. African Jour. Nat. Hist. South African journal of natural history.
 So. African Jour. Sci. South African journal of science.
 So. Austral. Nat. The South Australian naturalist.
 South. Agr. Southern agriculturist.
 South. Jour. Med. and Pharm. Southern journal of medicine and pharmacy.
 South. Woodlands. Southern woodlands.
 Spec. Papers Ohio State Acad. Sci. Ohio state academy of science. Special papers (later are part of Proceedings).
 Spec. Pub. Amer. Geog. Soc. American geographical society. Special publication.
 Spec. Pub. Bern. P. Bishop Mus. Bernice P. Bishop museum. Special publication.
 St. Paul Med. Jour. St. Paul medical journal.
 Sul Ross State Teach. Col. Bul. Sul Ross state teachers college bulletin. Alpine, Texas.
 Svensk Bot. Tidskr. Svensk botanisk tidskrift.
 Syokubutu oyobi dôbutu (Botany and Zoology).
 Taxon. Index. The taxonomic index. Issued by the New York botanical garden for the American society of plant taxonomists.
 Tech. Bul. Dept. Agr. and Comm. Philippines. Commonwealth of the Philippines. Department of agriculture and commerce. Technical bulletin.
 Tech. Bul. Kansas Agr. Expt. Sta. Technical bulletin. Agricultural experiment station. Kansas agricultural college.

- Tech. Pub. New York State Col. Forestry. Technical publication of the New York state college of forestry.
- Technologist. The technologist . . . ed. by P. L. Simmonds.
- Teysmannia.
- Therapeutic Gaz. (Detroit). The therapeutic gazette. A monthly journal devoted to therapeutics . . .
- Tijdschr. Indische Taal-, Land- en Volkenk. Tijdschrift voor Indische taal-, land-, en volkenkunde (Batavia).
- Timehri. Timehri. The journal of the Royal agricultural and commercial society of British Guiana.
- Torreya.
- Trab. Inst. Bot. y Farm. Fac. Cien. Méd. Buenos Aires; Trab. Mus. Farm. Fac. Cien. Méd. Buenos Aires. Trabajos del Instituto de botánica y farmacología . . . (Facultad de ciencias médicas de Buenos Aires; *earlier* Trabajos del Museo de farmacología . . .)
- Trab. Mus. Nac. Cien. Nat. Madrid Ser. Bot.; Trab. Mus. Nac. Cien. Nat. y Jard. Bot. Madrid Ser. Bot. Trabajos del Museo nacional de ciencias naturales (*later* y jardín botánico). Serie botánica.
- Trans. Acad. Sci. St. Louis. Transactions of the Academy of science of St. Louis.
- Trans. Albany Inst. Transactions of the Albany institute.
- Trans. Amer. Med. Assoc. Transactions of the American medical association.
- Trans. and Proc. Bot. Soc. Edinb. Transactions and proceedings of the Botanical society of Edinburgh. (*Earlier* Transactions . . .)
- Trans. and Proc. New Zeal. Inst. Transactions and proceedings of the New Zealand institute. (*Later* Transactions and proceedings of the Royal society of New Zealand.)
- Trans. and Proc. Phil. Soc. Adelaide. Transactions and proceedings of the Philosophical society (1877-79); *later* . . . Royal society of South Australia.
- Trans. and Proc. Roy. Soc. New Zeal. Transactions and proceedings of the Royal society of New Zealand. (*Earlier* Transactions and proceedings of the New Zealand Institute.)
- Trans. and Proc. Roy. Soc. So. Austral. Transactions and proceedings of the Royal society of South Australia. (*Earlier* Transactions and proceedings of the philosophical society.)
- Trans. and Proc. Roy. Soc. Victoria. Transactions and proceedings of the Royal society of Victoria.
- Trans. Bot. Soc. Edinb. Transactions of the Botanical society of Edinburgh. (*Later* Transactions and proceedings . . .)
- Trans. Hort. Soc. London. Transactions of the Horticultural society of London.
- Trans. Illinois State Acad. Sci. Transactions of the Illinois state academy of sciences.
- Trans. Internatl. Cong. Trop. Agr. 3d, London, 1914. Transactions of the third international congress of tropical agriculture . . . London, 1914.
- Trans. Kansas Acad. Sci. Transactions of the Kansas academy of science.
- Trans. Kentucky State Med. Soc. Transactions of the Kentucky state medical society.
- Trans. Linn. Soc. Bot. Transactions of the Linnean society. Botany.
- Trans. Linn. Soc. Zool. Transactions of the Linnean society. Zoology.
- Trans. Natl. Eelect. Med. Assoc. Transactions of the National eclectic medical association.
- Trans. Nat. Hist. Soc. Formosa. Transactions of the Natural history society of Formosa.
- Trans. New York Acad. Sci. Transactions of the New York academy of science.
- Trans. Ottawa Field Nat. Club. Transactions of the Ottawa field naturalists' club.
- Trans. Phil. Inst. Victoria. Transactions of the Philosophical institute of Victoria.
- Trans. Roy. Canad. Inst. Transactions of the Royal Canadian institute.
- Trans. Roy. Irish Acad. Transactions of the Royal Irish academy.
- Trans. Roy. Soc. Canada. See Proc. and Trans. Roy. Soc. Canada.
- Trans. Roy. Soc. Edinb. Transactions of the Royal society of Edinburgh.
- Trans. Roy. Soc. Mauritius. Transactions of the Royal society of arts and sciences of Mauritius (part of the time under French title).

- Trans. Roy. Soc. So. Africa. Transactions of the Royal society of South Africa.
- Trans. Roy. Soc. So. Austral. Transactions of the Royal society of South Australia. (*Formerly* Transactions and proceedings. . .)
- Trans. Scient. Assoc. Meriden, Conn. Transactions of the Scientific association, Meriden, Conn. (*Later* Proceedings and transactions, Meriden scientific association.)
- Trans. So. African Phil. Soc. Transactions of the South African philosophical society.
- Trans. Texas Acad. Sci. Transactions of the Texas academy of science.
- Trans. Wisconsin Acad. Sci., Arts and Lett. Transactions of the Wisconsin academy of sciences, arts and letters.
- Transvaal Agr. Jour. Transvaal agricultural journal.
- Trav. Off. Natl. Mat. Prem. Vég. (Paris) Notice. Travaux de l'Office national des matières premières végétales pour la droguerie, la pharmacie, la distillerie et la parfumerie. Notice.
- Trillia. Trillia. Proceedings of the Botanical society of western Pennsylvania.
- Trop. Natuur. De tropische natuur. Organ van de Nederlandsch-Indische natuurhistorische vereeniging.
- Trop. Woods, Yale Univ. School Forestry. Tropical woods, Yale university school of forestry.
- Tropenpflanzer. Der tropenpflanzer. Zeitschrift für tropische landwirtschaft. Organ des Kolonial-wirtschaftlichen komitees.
- U. S. Dept. Agr. Yearbook. United States department of agriculture. Yearbook.
- U. S. Geol. Survey Bul. United States department of the interior. Geological survey. Bulletin.
- U. S. Geol. Survey Prof. Paper. United States department of the interior. Geological survey. Professional paper.
- Univ. Calif. Pub. Amer. Archaeol. and Ethnol. University of California publications in American archaeology and ethnology.
- Univ. Calif. Pub. Bot. University of California publication in botany.
- Univ. Colorado Studies. University of Colorado studies.
- Univ. Iowa Studies Nat. Hist. University of Iowa studies in natural history. (Continuation of Bulletin from laboratories of natural history.)
- Univ. Maine Studies. University of Maine studies.
- Univ. Missouri Studies Sci. Ser. Science series. University of Missouri studies.
- Univ. New Mexico Bul. University of New Mexico bulletin.
- Univ. Texas Bul. University of Texas bulletin.
- Univ. Washington Pub. Biol. University of Washington publications in biology.
- Verhandl. Bot. Ver. Prov. Brandenb. Verhandlungen des Botanischen vereins der provinz Brandenburg.
- Verhandl. Deut. Wiss. Ver. Santiago de Chile. Verhandlungen des Deutscher wissenschaftlicher verein zu Santiago de Chile.
- Verhandl. K. Akad. Wetensch. Amsterdam Afd. Natuurk. Verhandelingen der Koninklijke akademie van wetenschappen te Amsterdam, afdeeling natuurkunde.
- Verhandl. K. K. Zool.-Bot. Gesell. Wien. Verhandlungen der (K. K.) zoologisch-botanischen gesellschaft in Wien.
- Veröffentl. Gesell. Palästina-Forsch. Gesellschaft für Palästina-forschung. Veröffentlichung.
- Věstník K. České Společn. Náuk Třída Mat.-Přír. (Mem. Soc. Roy. Sci. Bohême Cl. Sci.). Věstník Královské České společnosti náuk v Praze. Třída matematicko-přírodověcká (Mémoires de la Société royale des sciences de Bohême).
- Victorian Nat. Victorian naturalist.
- Vierteljahrsschr. Naturf. Gesell. Zürich; . . . Beibl. Vierteljahrsschrift der Naturforschenden gesellschaft in Zürich; also Beiblatt zur . . .
- Washington Hist. Quart. Washington historical quarterly.
- Webbia. Webbia. Raccolta di scritti botanici, edita da Ugo Martelli.
- West Amer. Sci. The West American scientist.
- West. Austral. Yearbk. Western Australian year-book.
- West Indian Bul. West Indian bulletin.
- West. Jour. Med. and Surg. (Louisville, Ky.) Western journal of medicine and surgery.
- West Virginia Univ. Bul. West Virginia university bulletin.
- Wisconsin Archeol. Wisconsin archeologist.
- Wiss. Veröffentl. Gesell. Erdk. Leipzig. Wissenschaftliche veröffentlichungen der Gesellschaft für erdkunde zu Leipzig.

- Year Book Pub. Mus. Milwaukee.** Year book of the Public museum of the city of Milwaukee.
- Ymer.** Ymer. Tidskrift utgifven af Svenska sällskapet för antropologi och geografi.
- Zeitschr. Allg. Oesterr. Apoth.-Ver.** Zeitschrift des Allgemeinen österreichischen apotheker-vereines.
- Zeitschr. Deut. Morgenländ. Gesell.** Zeitschrift der Deutschen morgenländischen gesellschaft.
- Zeitschr. Ethnol.** Zeitschrift für ethnologie. Organ der Berliner gesellschaft für anthropologie, ethnologie und urgeschichte.
- Zeitschr. Gesell. Erdk. Berlin.** Zeitschrift der Gesellschaft für erdkunde zu Berlin.
- Zeitschr. Weltforstw.** Zeitschrift für weltforstwirtschaft.
- Zion-Bryce Mus. Bul.** Zion-Bryce museum bulletin. Zion-Bryce natural history association. National park service.
- Zoe.**



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